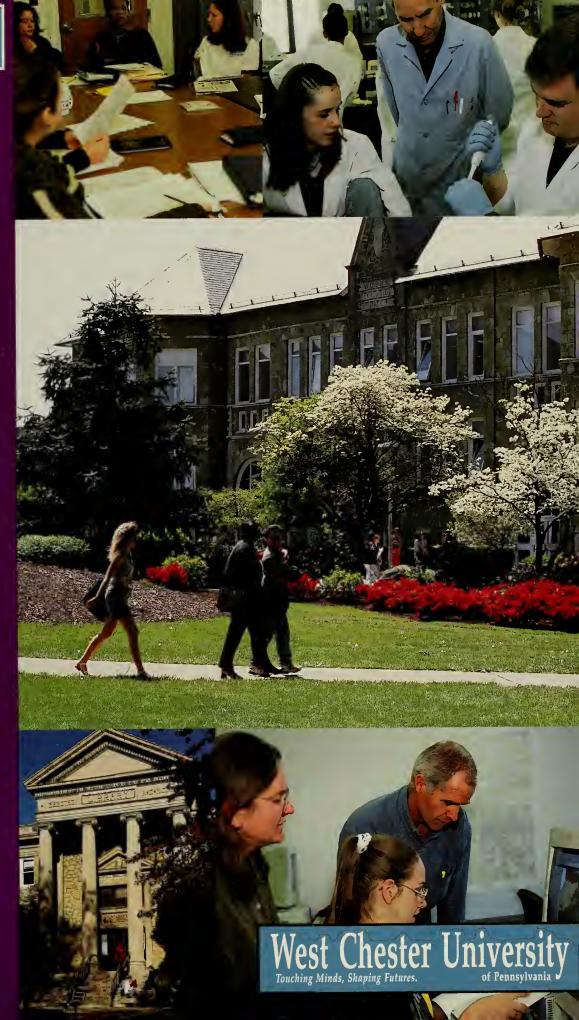
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Graduate Catalog









Graduate Catalog 1999-2000

The West Chester University Mission Statement

West Chester University, a member of the Pennsylvania State System of Higher Education, is a public, regional, comprehensive institution committed to building cohesive linkages with other public educational institutions in the Commonwealth. Strategically located in the rapidly growing southeastern region of the state, the University contributes to and benefits from the educational, cultural, and economic climate of the region, the historical richness of Chester County, and the diversity of the metropolitan center of Philadelphia.

West Chester University offers men and women the opportunity to achieve a higher education and to prepare for careers in an evolving, complex, technological, global society. Toward these ends, the University is advancing in new areas of higher education while maintaining a commitment to excellence in programs of long tradition within the College of Arts and Sciences and the Schools of Education, Music, Business and Public Affairs, and Health Sciences. As part of this commitment to the future, the University is becoming a green campus designed to demonstrate that a community can, through inquiry and education, act in a manner consistent with the goal of a sustainable earth.

In an environment that integrates and supports faculty and staff development, instruction, scholarship, and service, the University's primary focus is on undergraduate education with a strong liberal arts emphasis linking all programs. West Chester University also emphasizes high-quality graduate education in a range of programs responsive to students' needs for professional development and educational enrichment.

An emphasis on participatory learning, thorough advising, and personalized faculty interaction in small classes distinguishes the University and reflects its commitment to providing opportunity for both the creation and sharing of knowledge.

As a public institution of the Commonwealth, West Chester University is dedicated to providing access to a wide spectrum of students and values the richness of diversity within the student body, faculty, and staff.

Student life programs and activities support and encourage academic goals providing opportunity for students to develop a commitment to intellectual honesty, mutual respect, ethical decision making, and civic and social responsibility.

The University expects to graduate men and women with an enhanced ability to acquire knowledge, to think clearly and critically, to communicate effectively, to respect and understand diversity, to appreciate the aesthetic value of life, and to possess the skills necessary for a career and the continuing process of lifelong learning. The best measure of the University's success is that of its alumni and their continuing pride in their alma mater.

The West Chester University Values Statement

West Chester University is committed to attracting, enrolling, and graduating quality students from a wide variety of educational, cultural, and economic backgrounds. This endeavor requires the University to attract and retain highly qualified faculty and staff and to provide each member of the University community with learning and leadership development opportunities. To this end, the University supports and encourages programs which benefit all people and which seek to eradicate discrimination and injustice. We treasure what we believe to be the highest principles of American society: the worth and uniqueness of each individual, the belief that success is to be earned by individual effort put forth in an environment founded on equality of opportunity, and the appreciation of the ideal of an inclusive society.

We believe that it is incumbent upon all members of our community – staff, students, faculty and administrators – to conduct themselves with civility toward one another at all times. We value the special talents and contributions of each member of our community. We further affirm the worth and dignity of each member and the shared responsibility of all to treat each other as individuals, with respect and courtesy.

As a university owned by the citizens of Pennsylvania, we value our mission to provide the best educational opportunities possible which will enable the University community to successfully address the concerns of a global society. To this end, West Chester University seeks to provide diligent advising for students and to focus on teaching students to think clearly and critically, to make logical and ethical judgments, and to communicate effectively with others.

West Chester University's community strongly supports the principles of academic integrity and academic responsibility, viewing both as the province of every member of the campus community. We hold the highest esteem for teaching directed toward student learning and affirm that mastery of content as well as mastery of teaching skills necessary to communicate such content are paramount.

This values statement is intended to be a living document which will serve West Chester University as it changes and evolves in the coming years.

Communications Directory

MAILING ADDRESS: West Chester University

West Chester, PA 19383

TELEPHONES: Dial 436 plus number in parentheses.

For offices not shown here, call the University Information Center:

610-436-1000.

Admissions Office of Graduate Studies and Sponsored

Research, Old Library (2943)

Affirmative Action Director of Social Equity, 13/15 University

Ave. (2433)

Billing/Payments Office of the Bursar, Elsie O. Bull Center

(2552)

Bookstore Student Services Inc., Sykes Student Union

(2242)

Careers/Placement Director of Career Development Center,

Lawrence Center (2501)

Continuing Education Director of Adult Studies, Elsie O. Bull

Center (3550)

Counseling Center, Lawrence Center (2301)

Financial Aid/ Director of Financial Aid, Elsie O. Bull

Work Study Center (2627)

and Marketing

Graduate Studies/ Dean of Graduate Studies and Sponsored

Catalogs Research, Old Library (2943)

Housing Residence Life, Sykes Student Union

(3307)

Police Public Safety Department, Peoples Building

(3311)

Public Relations Director of Public Relations and Marketing.

13/15 University Ave. (3383)

Scheduling/Registration Office of Graduate Studies and Sponsored

Research, Old Library (2943)

Services for Students Director, Office of Services for Students

with Disabilities with Disabilities, Lawrence Center (2564)

Student Services, Inc. Sykes Student Union (2955)

Summer Sessions Office of Graduate Studies and Sponsored

Research, Old Library (2943)

Teacher Certification Teacher Education Information and

Advisement Center, Recitation Hall (2426)

Undergraduate Catalogs Office of Admissions, 100 West Rosedale

(3411)

University Events/ Student Programming Dept./Student Student Activities Activities Council (2983) or Sykes

Union Information Desk (2984)

Nondiscrimination/Affirmative Action Policy

West Chester University is committed to providing leadership in extending equal opportunities to all individuals. Accordingly, the University will continue to make every effort to provide these rights to all persons regardless of race, religion, sex, national origin, ancestry, age, marital status, sexual orientation, disability, or veteran status. This policy applies to all members of the University community, including students, faculty, staff, and administrators. It also applies to all applicants for admission or employment and all participants in University-sponsored activities.

This policy is in compliance with federal and state laws, including Titles VI and VII of the Civil Rights Act of 1964, Title IX of the Educational Amendment of 1972, Section 504 of the Rehabilitation Act of 1973, Americans with Disabilities Act of 1990, and Executive Order of the Governor of Pennsylvania. Any individual having suggestions, problems, complaints, or grievances with regard to equal opportunity or affirmative action, or to request a translation of this

publication into a language other than English, is encouraged to contact Ms. Luz Gomez, director, Office of Social Equity, 13/15 University Ave., 610-436-2433.

Sexual Harassment Policy

West Chester University is committed to equality of opportunity and freedom from discrimination for all of its students and employees. Because sexual harassment is a form of discrimination based on sex, the University will not tolerate it in any form.

Upon official filing of a complaint, immediate investigation will be made culminating in appropriate corrective action where warranted, which may include termination of the relationship with the University.

Sexual harassment is defined as unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature occurring when:

- submission to the unwelcome conduct of a sexual nature is made either explicitly or implicitly a term or condition of an individual's employment, or of a student's academic status or treatment;
- submission to or rejection of the unwelcome conduct of a sexual nature by an individual is used as the basis for academic or employment decisions affecting such an individual; or
- the unwelcome conduct of a sexual nature is sufficiently severe, persistent, or pervasive to limit an individual's ability to participate in, benefit from, or perform at extracurricular activities, work, academic or educational programs, or to create a hostile or abusive living, working, or academic environment.

A complete copy of the University's Sexual Harassment Policy document, inclusive of the Sexual Harassment Complaint Procedure, may be obtained from the Office of Social Equity.

Individuals who believe themselves to be the victims of sexual harassment, or who have questions about the University's policy on this matter should contact Ms. Luz Gomez, director, Office of Social Equity, 13/15 University Ave., 610-436-2433.

ADA Policy and Accommodations

In keeping with West Chester University's commitment to equality of opportunity and compliance with the Americans with Disabilities Act of 1990, the University has established procedures and designated offices to provide accommodations for all people with disabilities. A complete copy of the ADA Policy Statement, as well as appropriate offices, appears on page 21 of this catalog. Individuals needing accommodations should make their needs known to the responsible office at least a week in advance. This publication is available on our Web site (www.wcupa.edu). A disk version for those needing accommodations is available from the Office of Graduate Studies, 610-436-2943.

Accreditation

West Chester University is accredited by the Middle States Association of Colleges and Secondary Schools, National Council for Accreditation of Teacher Education. National Athletic Training Association, National Association of Schools of Music, National League for Nursing, American Chemical Society. Commission on Accreditation in Clinical Chemistry, Joint Review Committee for Respiratory Therapy Education, Council on Social Work Education (baccalaureate level), and Council of Academic Accreditation in Speech-Language Pathology and Audiology. West Chester University has been given program approval by the Department of Education of the Commonwealth of Pennsylvania for the certification of teachers.

The provisions of this catalog are not to be regarded as an irrevocable contract between the student and the University. West Chester University reserves the right to change any provisions or requirements at any time.

Office of Graduate Studies and Sponsored Research

McKelvie Hall

102 Rosedale Avenue

West Chester University

West Chester, PA 19383-2300 610-436-2943

E-mail: gradstudy@wcupa.edu

http://www.wcupa.edu

Hours: Monday-Friday

8:30 a.m.-4:30 p.m. 4:30-7:00 p.m.

Tuesday
Summer Hours: Monday–Friday

8:30 a.m.-4:00 p.m.

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Graduate Programs of Study

Administration

M.S.A. (Concentrations: Health Services, Human Resource Management, Individualized, Leadership for Women, Long-Term Care, Public Administration, Sport and Athletic Administration, Training and Development, Regional Planning)

Certificate in Administration

Anthropology and Sociology

M.S.A. (Concentration: Long-Term Care) Certificate in Gerontology

Biology

M.S. Biology

Business

M.B.A. (Concentrations: Economics/Finance, General Business, Management)

Chemistry

M.A. Physical Science (Concentration: Chemistry)

M.Ed. Chemistry

M.S. Chemistry

M.S. Clinical Chemistry

Communication Studies

M.A. Communication Studies

Communicative Disorders

M.A. Communicative Disorders

Computer Science

M.S. Computer Science

Certificate in Computer Science

Counseling and Educational Psychology

M.Ed. Elementary School Counseling

M.Ed. Secondary School Counseling

M.S. Higher Education Counseling

Specialist I Certificate in Counseling

(Elementary or Secondary)

Criminal Justice

M.S. Criminal Justice

Early Childhood and Special Education

M.Ed. Special Education

Certification in Special Education

Elementary Education

M.Ed. Elementary Education (Concentrations: Creative Teaching-Learning, Elementary Education, Gifted and Talented, Human Development, Language Arts, Social Studies)

Certification in Elementary Education

Certificate of Advanced Graduate Study

English

M.A. English

Foreign Languages

M.A. French

M.A. Spanish

M.Ed. French

M.Ed. Spanish

Geography and Planning

M.A. Geography

M.S.A. (Concentration: Regional Planning)

Geology and Astronomy

M.A. Physical Science (Concentration: Earth Sciences)

Health

M.Ed. School Health

M.S.A. (Concentration: Health Services)

M.S. Public Health

History

M.A. History

M.Ed. History

Leadership for Women

M.S.A. (Concentration: Leadership for Women)

Literacy

M.Ed. Reading

Reading Specialist Certification

Certificate of Advanced Graduate Study

Mathematics

M.A. Mathematics (Concentrations: Mathematics, Mathematics Education)

Music

M.A. Music History

M.M. Accompanying

M.M. Performance

M.M. Piano Pedagogy

M.M. Music Education

M.M. Music Theory/Composition

Nursing

M.S.N. Community Health Nursing

Philosophy

M.A. Philosophy

Physical Education

M.S. Physical Education (Concentrations: General Physical Education, Exercise and Sport Physiology)

M.S.A. (Concentration: Sport and Athletic Administration)

Political Science

M.S.A. (Concentration: Public Administration)

Professional and Secondary Education

M.Ed. Secondary Education

M.S. Educational Research

Courses in Environmental Education; Urban Education

Psychology

M.A. Clinical Psychology

M.A. General Psychology

M.A. Industrial/Organizational Psychology

M.A. Group Psychotherapy/Processes (Certification: Psychodrama)

Public Administration

See Political Science

Social Work

M.S.W.

Teaching English as a Second Language

M.A. Teaching English as a Second Language

The following departments and interdisciplinary areas offer graduate courses, but no graduate degree: Anthropology and Sociology, Art, Linguistics, Theatre Arts, and Women's Studies.

Graduate Studies at West Chester

The mission of graduate education at West Chester University is to provide high quality, accessible graduate degree programs responsive to students' needs for professional development and educational enrichment. The offerings reflect a wide range of master's programs as well as a selected number of specialist and professional growth opportunities. The quality of programs is enhanced by the graduate students' access to and interaction with faculty and by the richness of the diverse student body. The graduate programs are integrated with the

research, outreach, and development functions of the University. The faculty fosters excellence in teaching and promotes an intellectual environment that actively supports quality graduate education. The goals of graduate study at this University are:

 Foster an attitude of intellectual and creative inquiry and to develop research and analytical skills that are applicable to professional settings.

- 2. Increase the professional skills and academic competence of students to enable them to make important contributions to their professions.
- 3. Prepare students for further graduate study.
- 4. Meet the needs of college graduates who are preparing for changing career roles in the future.

THE GRADUATE STUDIES PROGRAM at West Chester has grown remarkably since its introduction in 1959. Approximately 2,000 students now attend during the fall and spring semesters; some 1,800 enroll for summer sessions. West Chester University's graduate program is the largest within the 14 Commonwealthowned institutions of higher learning.

The University began as the West Chester Academy in 1812 and functioned as a normal school from 1871–1927. Since it became a four-year college in 1927, West Chester has developed steadily and is now one of the major comprehensive institutions of higher learning in the Philadelphia vicinity.

Facilities for graduate education are good. The Commonwealth inaugurated an extensive building program in the 1950s which

led to the Schmucker Science Center, a block-long complex of buildings including a planetarium, an astronomical observatory, and modern laboratories; the Elsie O. Bull Learning and Research Center; and the Francis Harvey Green Library, one of Pennsylvania's principal university libraries.

The University offers the master of arts, master of business administration, master of education, master of music, master of science, and master of social work in approximately 50 disciplines or areas of study.

Master's degree programs such as the M.B.A., the M.A. in communicative disorders, the M.S.A., the M.S. in computer science, the M.S.W., and the certificate of advanced graduate study in reading have been designed to meet the particular needs of the times and the area.

In addition to its degree and certification programs, West Chester offers nondegree study in a number of areas including art, linguistics, theatre arts, and women's studies.

For the benefit of in-service teachers and other employed persons, West Chester schedules most of its graduate classes during late afternoons and evenings.

Graduate Summer Sessions

Summer school consists of two fiveweek terms plus a three-week post session, which is composed primarily of workshops. (To apply, see "Admission.") Admission to summer sessions courses does not constitute admission to a degree program.

The Campus

The University is located in West Chester, a community in southeastern Pennsylvania strategically located at the center of the mid-Atlantic corridor. The seat of Chester County government for almost two centuries, West Chester retains much of its historical charm in its buildings and countryside, but offers the twentieth-century advantages of a town in the heart of an expanding economic area. The University occupies 388 acres. The main campus is situated on 97 acres within the Borough of West Chester; the south campus is located on a 291-acre tract in adjacent townships. West Chester was settled in the early eighteenth century principally by members of the Society of Friends. With a population of about 20,000, the borough is small enough to have the pleasant aspects of a tree-shaded American town, large enough to provide essential services and the substance of a vigorous community, and old enough to give the student first-hand contact with America's early history. The heart of West Chester is its courthouse, a Classical Revival building designed in the 1840s by Thomas U. Walter, one of the architects for the Capitol in Washington, D.C.

How to Reach West Chester

The Borough of West Chester is easily accessible from all directions both by car and public transportation. Route 3, the West Chester Pike, leads directly into town from center-city Philadelphia. From the Pennsylvania Turnpike, motorists traveling west should take Route 202 south from the Valley Forge Interchange (#24), while those traveling east can arrive via Route 100 south from the Downingtown Interchange (#23). From the south, Route 202 from Wilmington and Routes 100 and 52 from U.S. Route 1 all lead to West Chester.

Undergraduate Studies

Approximately 9,800 students are enrolled in the University's undergraduate program. The University grants the bachelor of science in education in three basic curricula—elementary education, secondary education, and special education; the bachelor of arts in arts and letters, social and behavioral science, the natural sciences, and mathematics; the bachelor of fine arts in studio arts; the bachelor of science in health and physical education, music education, the sciences and health sciences; the bachelor of music in music education, theory/composition, performance, and music history; and the bachelor of science in nursing.

The University also offers degree programs that prepare students for specialized work in business administration, computer and information sciences, criminal justice, communications, social welfare, communicative disorders, and many other fields. The Office of Admissions will supply undergraduate admissions materials upon request.

Admission

Student Responsibility

It is the responsibility of students to know and observe all policies and procedures for their programs. The University will not waive a regulation because a student pleads ignorance of it. Students should give careful attention to the dates relating to application for graduation as well as other pertinent deadlines announced by the department or the Office of Graduate Studies and Sponsored Research.

The Application Procedure

Students with a bachelor's degree from an accredited college or university in the United States or with equivalent preparation acquired in another country are eligible to apply for admission to a graduate program.

- Applications are available from the Office of Graduate Studies and Sponsored Research and, when completed, should be returned there along with all supporting documentation required for admission to a particular degree program.
- 2. Applicants must request all institutions at which they have taken any postsecondary work to submit an official transcript directly to the Office of Graduate Studies and Sponsored Research. West Chester University undergraduate transcripts are available to the Office of Graduate Studies and Sponsored Research; applicants do not need to forward them.
- 3. Applicants should consult with the graduate coordinator of the primary interest area to assure compliance with admission requirements for a particular degree program.

Application Deadline

log.

For most of the graduate programs, recommended deadlines for the submission of completed applications are as follows: April 15 – fall semester, October 15 – spring semester, and February 15 for graduate assistant applicants.

Some programs have established different recommended application deadlines. Please see application information under individual programs listed in this cata-

The application and all supporting credentials should be submitted to the Office of Graduate Studies by the deadline dates shown above. Late applications will be accepted; however, admission will be on a space-available basis for applicants who meet all other admission requirements. Applicants who have missed the deadline should consult with the graduate coordinator for that program to receive advice regarding the possibility of enrolling as a nondegree student for a maximum of six credits while awaiting

Students interested in receiving a graduate assistantship should apply to the Office of Graduate Studies no later than February 15.

Notification of Admission

action on their application.

All applications are reviewed by both the appropriate department or program and the dean of graduate studies.

The dean will notify applicants of the acceptance or rejection of their applications. If accepted, students must follow all program advising and scheduling policies and procedures. Accepted students should meet immediately with their advisers to outline a program of study.

Matriculation Fee

At the time of acceptance into a graduate program at West Chester University, the student must submit a nonrefundable fee of \$100 to reserve his/her admission. This sum is applied toward the student's tuition and/or fees but is nonrefundable should the student subsequently decide not to attend West Chester University. The student's admission is canceled if he/she fails to submit the \$100 matriculation fee by the due date.

Admission Requirements for Degree Students

- 1. A baccalaureate degree from a college or university accredited in the United States or its equivalent from a school in another country.
- 2. A cumulative average of at least 2.50 and a GPA of at least 2.75 in the major discipline. (An "A" equals 4.0.)

- 3. Scores from the Graduate
 Management Admission Test,
 Graduate Record Examination, or the
 Miller Analogies Test if these are
 required for admission to the program in which the student wishes to
 enroll.
- 4. Approval by the department offering the desired degree program. Before such approval is given, an interview with a faculty member may be required. The applicant also must meet any other additional requirements established for the degree program, including grade point averages which exceed the minimum graduate admission requirements.
- 5. Approval by the dean of graduate studies and sponsored research.
- 6. Space available in the program.

An applicant who has academic deficiencies may be granted provisional status. The departmental graduate coordinator will specify course work which must be taken to remove such deficiencies and which will not be credited to degree requirements including, if necessary, undergraduate prerequisites. Admission to degree study does not constitute admission to degree candidacy. After a student has satisfactorily fulfilled certain course requirements specified in the degree program and has completed 12 to 15 semester hours of work, the student must apply for admission to degree candidacy.

Graduate Record Examination and Graduate Management Admission Test

Scores from the Graduate Record Examination (GRE) or Graduate Management Admission Test (GMAT) are required for many degree programs. The prospective degree student should consult the appropriate program outline and schedule a test prior to matriculation.

Both tests are administered by the Educational Testing Service, P.O. Box 6004, Princeton, NJ 08541-6004. For current information regarding application materials and test dates, contact the Counseling Center, 610-436-2301. Application forms must be filed with the Educational Testing Service at least 15

days prior to the date of any examina-

The examinations may be taken at any of the testing centers designated by the Educational Testing Service. The GRE is administered periodically at West Chester—generally in October, December, February, April, and June. West Chester University became a test center for the GMAT in fall 1989.

Miller Analogies Test

Some degree programs require students to take the Miller Analogies Test, which is administered each week at the Counseling Center, Room 129, Lawrence Center. It requires less than two hours and is given by appointment. Students requiring the test should telephone the center (610-436-2301) well in advance to schedule a test date. Appointments are often booked several months in advance. The student must pay an examination fee in person at the time the test is taken at the Counseling Center.

Undergraduates

An undergraduate who has completed 96 credits of undergraduate course work, is in the final semester of work for the bachelor's degree, and has an overall grade point average of at least 3.0 may, with the permission of the dean of graduate studies and sponsored research, enroll in up to six credits of graduate-level courses. Credits earned may be applied to a master's degree program subject to the approval of the major department.

Auditors

An auditor is a student who attends classes but does not necessarily do other work required of students in the course. Anyone may attend the University for the sole purpose of auditing one or more graduate courses by obtaining approval from the course instructor, graduate coordinator, and dean of graduate studies and sponsored research, and paying the regular fee. Full-time graduate students may audit one course per semester without charge, provided they obtain approval from the course instructor and the course does not create an overload for the student. If an overload results, students must pay for each credit in excess of 12. Part-time graduate students may audit one course per semester, provided they obtain the instructor's approval, enroll in the course through

the office of graduate studies, and pay the regular course fee.

Credit is never given to auditors. After the course has commenced, the auditor status may not be changed. The grade of Audit (AU) is recorded on the student's transcript. A full-time graduate assistant may not use an audit to maintain his/her full-time status without the prior approval of the appropriate adviser, graduate coordinator, and dean of graduate studies.

Transfer of Credit

Applicants to a degree program at West Chester who have earned credits through previous graduate study at another college or university may transfer credit under certain circumstances. Application forms for transfer of credit may be obtained in the Office of Graduate Studies and Sponsored Research. The following conditions are the minimum requirements for acceptance of transfer credit:

- 1. The credits must have been earned at an accredited graduate school.
- 2. The courses taken must be approved by the department or program in which the applicant intends to enroll at West Chester and by the graduate dean
- 3. No more than six credits may be transferred.
- 4. The grade earned for courses to be transferred must be B or better. (An "A" equals 4.0.)
- 5. An official transcript must be submitted. Transcripts must be sent directly to the Office of Graduate Studies and Sponsored Research by the institution that granted the credits, and they must clearly indicate that the courses to be transferred are graduate courses, which were given graduate credit.
- 6. The courses for transfer must have been taken recently enough to fall within the six-year time limitation.

The Senior Citizen Policy

The Senior Citizen Program allows retired Pennsylvania residents to attend West Chester University tuition free on a SPACE-AVAILABLE BASIS. To qualify, the student must be retired, at least 60 years old, and have been a Pennsylvania resident for at least a year. Students may enroll as either degree or nondegree students and may audit or take courses for credit. The program does not include internships, independent study,

individualized instruction, student teaching, thesis, seminar, or any similar course requiring extra faculty compensation for the additional enrollment. All scheduling information is available in the Office of Graduate Studies.

Senior citizen students may not register prior to the beginning of classes. They must attend the first meeting of the class(es) for which they wish to register and obtain the instructor's signature on their schedule, indicating there is space available in the class. They then return their signed schedule, along with a signed Senior Citizen fee waiver form and signed audit form if they wish to audit, to the Office of Graduate Studies. Graduate Studies then schedules the student and submits the fee waiver form to the Office of Financial Aid.

Admission of International Students

Students from foreign countries may be admitted to the graduate program, provided they meet certain special requirements in addition to the University and program admission requirements. International students, like other out-of-state students, are accepted only when space is available.

Applications and supporting documents must be submitted to the Office of Graduate Studies and Sponsored Research no later than January 15 for admission the following fall semester, and September 15 for admission the following spring semester.

Applicants whose native language is not English must submit evidence of satisfactory performance on the Test of English as a Foreign Language (TOEFL) to the Office of Graduate Studies and Sponsored Research before application forms can be processed. A score of 550 is the minimum acceptable score, although some programs have higher minimum requirements. Information about the TOEFL test, including test dates and locations in foreign countries, can be obtained from the Educational Testing Service, Box 6151, Princeton, NJ 08541-6151, U.S.A. Registration forms must reach Princeton at least five weeks before the test is to

Applicants who fail to achieve a minimum score of 550 on the TOEFL may be admitted to the English as a Second Language (ESL) program, providing they are otherwise eligible for admission to the graduate degree program to which

they have applied. Successful completion of the ESL program will qualify the applicant for subsequent admission to a graduate degree program.

The following information and documents must be filed with the Office of Graduate Studies and Sponsored Research:

- 1. A completed application form.
- 2. An official copy of school certificates, showing the date issued for all work done beyond the elementary level.
- 3. Official record of the TOEFL score sent directly to the Office of Graduate Studies by the Educational Testing Service.
- 4. A Proof of Financial Support Form must be completed and returned to the Office of Graduate Studies.

 Current costs are approximately \$13,000 for the academic year.

 (Summer and holidays are not figured into these costs.)
- 5. A Medical History Form and an Immunization Record must be completed by a physician and returned to the Office of Graduate Studies.
- 6. If a student is admitted to a degree program, a U.S. Immigration (I-20) Form will be supplied by the University.

After the application and supporting documents have been reviewed, the Office of Graduate Studies and Sponsored Research will notify the applicant of its action. International students are urged to remain in their own countries until they receive notice of acceptance. The University cannot assume responsibility for the housing or welfare of international students.

Proof of Financial Support

International students must demonstrate proof of financial support in the amount of \$13,000 for their first academic year in the United States at West Chester University. That support can be demonstrated through a variety of sources, as long as the total from all sources of support equals at least \$13,000. The sources of funds can include scholarships, grants, loans, sponsorship by a U.S. citizen or permanent resident, personal or family funds, and oacceptance deposits. All sources of funds must be verified. Acceptance deposits may be required to verify personal or family funds. For students who have previously studied in the United States, verification that all financial obligations were met at prior academic institutions may be all that is required to demonstrate proof of financial support.

Insurance Requirements for International Students

International students at West Chester University are required to carry adequate health and accident insurance. Insurance must be effective for all periods of time the student has been authorized to be in the United States by an immigration document issued by West Chester University.

Health and accident insurance policies must be purchased through a company that sells insurance in the United States. West Chester University has set minimum coverage standards which must be met by all insurance policies. Information about the minimum standards is available at the Center for International Programs Office, 610-436-3515.

To assure compliance with the insurance requirement, all international students must come to the Center for International Programs by September 15 of each academic year (January 31 for students entering spring semester). There students may obtain information as to the amount of insurance required and the means of obtaining coverage to meet the insurance requirement.

Readmission

See policy on Continuous Enrollment, page 14.

Good Standing, Academic Probation, Degree Candidacy, and Degree Requirements

Good Standing

Students must maintain a 3.00 cumulative average to remain in good standing.

Academic Probation

Graduate students whose cumulative grade point average falls below 3.00 will be placed on academic probation. Graduate students must return to good standing during the next nine credits of appropriate graduate work, or they will be dropped from their graduate program. Graduate students earning a cumulative GPA of 2.00 or lower will be dropped from their graduate program without a probationary period. Grades earned during summer sessions count the same as grades earned during the academic year. All grades recorded determine the student's academic status, even if a student changes degree programs. Students dropped from a graduate program due to unsatisfactory work will not be permitted to take courses for credit towards a graduate degree in that department beyond the semester in which they are dropped.

Individual programs may have higher GPA minimums or additional requirements. To be eligible to receive the master's degree, graduate students must complete all requisite courses and credits with a cumulative GPA of at least 3.00.

Students holding graduate assistantships who fail to maintain a 3.00 cumulative GPA will have their assistantships revoked or will not have them renewed. This policy includes courses taken during summer sessions. Departments also may stipulate higher academic standards for maintaining assistantships.

Requirements for Admission to Degree Candidacy

Application for degree candidacy must be made immediately on completion of the first 12 to 15 semester hours of course work in a degree program. During the precandidacy period the student must do the following:

- 1. Complete those courses which the department or program specifies as prerequisite to degree candidacy.
- 2. Perform satisfactorily on examinations which the department or program may require for admission to degree candidacy.
- 3. Maintain a cumulative average of at least 3.00.
- Meet specific GPA requirements as stipulated by the individual degree program.

Procedure for Application to Degree Candidacy

- 1 Every student must file an application for admission to degree candidacy with the dean of graduate studies and sponsored research. Forms are available in the Office of Graduate Studies and Sponsored Research.
- 2. When the application has been evaluated by the department concerned and by the dean of graduate studies and sponsored research, the graduate dean will send a letter of acceptance or rejection to the student.
- Upon notice of acceptance, degree candidates must confer with their advisers to continue with their previously established program of study.

Students must be admitted to degree candidacy prior to registering for comprehensive exams and before registering for thesis credits.

Reapplication for Degree Candidacy

Applicants who fail to qualify as degree candidates may reapply. They must maintain a cumulative grade point average of 3.00.

Summary of Requirements for the Master's Degree

1. Admission to degree candidacy.

- 2. Completion of all requisite courses and credits with a cumulative average of 3.00, compliance with specific GPA requirements as stipulated by the individual degree program, and achievement of satisfactory scores on the Graduate Management Admission Test, Graduate Record Examination, or the Miller Analogies Test, if required. (See program requirements.)
- 3. Satisfactory performance on a final written and/or oral comprehensive examination conducted by the student's advisory committee in the field of specialization. (It is the candidate's responsibility to apply for this examination.)
- Submission and approval of the thesis or research report in those programs requiring it.
- Fulfillment of any special examinations, requirements, or competencies that are unique to a department or program.
- 6. Fulfillment of all financial obligations to the University, including payment of the graduation fee, and of all other obligations, including the return of University property.
- 7. Compliance with all academic requests from the dean of graduate studies and sponsored research, including submission of a form letter of intent to graduate by the specified due date.

Additional Requirements for the Master of Education Degree

In addition to fulfilling these requirements, candidates for certain Master of Education degrees must give evidence of successful teaching experience approved by the department chairperson. Other experiences in lieu of this requirement must be approved by the relevant department and the dean of graduate studies and sponsored research.

Fees and Expenses

Special Note: The fees listed below reflect charges at press time. For up-to-date information on fees at any given time, contact the Office of the Bursar, 610-436-2552.

Fees and expenses are subject to change without notice. Fees shown here are in effect for the 1998–99 academic year. Changes for 1999–00, if approved, would occur after the printing of this catalog. Unless otherwise specified, fees may be paid by Visa, MasterCard, American Express, check, or money order made payable to West Chester University. The cancelled check, money order record, or charge card billing serves as a receipt.

Basic Graduate Fees for Legal Residents of Pennsylvania

Less than 9 credits—\$193.00 per semester hour of credit

9 through 15 credits—\$1,734.00 per semester

More than 15 credits—\$1,734.00 plus \$193.00 for each semester hour of credit beyond 15

Basic Graduate Fees for Out-of-State Students

Less than 9 credits—\$346.00 per semester hour of credit

9 through 15 credits—\$3,118.00 per semester

More than 15 credits—\$3,118.00 plus \$346.00 for each semester hour of credit beyond 15

Application Fee

A nonrefundable graduate student application fee of \$25 is assessed to all students applying to a graduate program. If a nondegree graduate student (a graduate student not yet officially admitted to a degree program) applies, he/she will pay this fee upon initial application to take a graduate course. He/she will not be assessed this fee again once officially admitted to a degree program.

Housing Fee

Graduate student housing is limited at West Chester University. If housing is granted, a fee must be paid which will secure the occupancy offered. Possible options include a standard double room in a designated section of an undergraduate residence hall with one roommate, or in selected units of the South Campus

apartment complex with five occupants in combinations of doubles and singles. This fee covers all utilities, including on-campus and local telephone service (students must provide the actual telephone). The University offers a special program for long-distance calling. The Student Occupancy Agreement, which must be signed before students check into their rooms, is binding for the full academic year (September-May), even for those students who may receive late room assignments. The current cost per student is \$1,430 a semester for a traditional residence hall; apartments are \$1,659 for a double bedroom and \$1,840 for a single bedroom. These rates are subject to change and should be considered reasonable approximations.

Meal Fee

Students in the North Campus residence halls must choose among Plans 1, 3, and 5.

Plan 1: 14-Variable Program \$800.00 per semester

This convenient program entitles resident, off-campus, and commuter students to any 14 out of the 19 meals served Monday through Sunday and includes a flexible fund of \$100. The flexible fund aspect of the 14-variable board plan gives students the flexibility of making up to \$100 in purchases at any dining service location. Students may add to their flexible fund account at any time in \$25 increments.

With flexible funds students can:

- Supplement meal entitlements
- Treat friends or family members to meals
- For a late night snack, have a freshly made ITZA PIZZA delivered to the residence hall
- Purchase items from the Convenience Stores

Plan 2: Flexible Fund Program

This program is designed for South Campus apartment complex, off-campus and commuter students, faculty, and staff. A minimum of \$100 can be placed in a flexible fund account that can be accessed by an ID card. The program can be used in the Lawrence Food Court, Campus Corner, Convenience Stores, or in the Sykes Ram's Head Food Court. Faculty and staff may use

their flex dollars in the University Club as well. With this program, there is no need to carry cash for meals. The flexible fund may be increased by \$25 increments at any time during the semester.

Plan 3: 10-Variable Program \$734.00 per semester

This plan allows resident, off-campus, and commuter students more flexibility in scheduling their meals throughout the week. This plan entitles participants to 10 out of the 19 meals served Monday through Sunday and includes a flexible fund of \$100 that can be used as described in Plan 1.

Plan 4: 5-Variable Program \$495.00 per semester

This plan is designed for South Campus apartment complex, off-campus, and commuter students who wish to have the convenience of meals on campus. This plan entitles participants to five out of the 19 meals served Monday through Sunday and includes a flexible fund of \$50 that can be used as described in Plan 1.

Plan 5: 19 All-Inclusive Program \$809.00 per semester

This plan entitles resident, off-campus, and commuter students to all of the meals served during the week and includes a flexible fund of \$50 that can be used as described in Plan 1.

For those students in residence halls, the meal plan cost has already been included in the University billing. South Campus apartment complex, off-campus, and commuter students can sign up for one of these meal plans by applying at the Office of the Bursar in the E.O. Bull Center.

Any flexible funds left at the end of the first semester will transfer to the second semester. Any flexible funds remaining at the end of the second semester will be forfeited.

How the Meal Plan Works

A West Chester University identification card will be encoded to access a student's dining service account.

A meal or flexible funds will be deducted from the balance automatically when the card is presented to the cashier.

This identification card will serve as a ticket to the offerings at Lawrence Food Court, Campus Corner, Convenience

Stores, and Sykes Ram's Head Food

Lost or Stolen ID Cards

Lost or stolen cards should be reported immediately in person to the Information Systems Office in order to prevent someone from misusing the lost ID. A temporary ID can be purchased at this time for \$5. (This fee is refunded if it is the first time the student is getting a temporary card and the temporary card is returned before its expiration date.) Office hours are Monday through Friday, 8 a.m. to 6 p.m. The Information Systems Office is located at Lawrence Center, 610-436-3129.

Late Registration Fee

Graduate students are not automatically granted permission to schedule after the deadline; however, a late registration fee of \$35 is required of students who receive approval to schedule and pay after the official registration deadline.

General Fee

The general fee of \$330 per full-time student (9 credits or more) or \$38 per credit hour for the part-time student (8 credits or less) is a mandatory charge which covers the use of the following services:

- Sykes Student Union Fee:
 Previously called the community center fee, this charge is for the operation and use of Sykes Student Union (\$42).
- Student Health Center Fee: This charge is for the use of the University Health Center (\$50). Part-time graduate students (registering for less than nine graduate credits) may elect to have the Student Health Center Fee (\$6 per credit) waived. Acceptance or rejection of this option must be made at the time of initial registration for each semester or summer session. This choice cannot be changed until the time of the next registration. Students who elect to have this fee waived will not have services of the Student Health Center available to them for the semester or summer session involved. Also, part-time graduate students are informed that the opportunity to purchase University-approved health insurance is tied to payment of the Student Health Center Fee.
- Sykes Student Union Expansion Fee: This fee supports the recent renova-

- tion of Sykes Student Union, which features new and improved student services (\$55).
- Graduate Student Association Fee: This fee funds the activities of the Graduate Student Association (\$10).
- Educational Services Fee: Students pay this fee in lieu of specific department charges (\$173).

Course Audit Fee

Students who audit a course (attend a course without taking credit) pay the same fees as other students.

Payment of Fees

Students who schedule in advance for a future semester will be mailed a semester bill. If semester bills are not received by the first week in August for the fall semester or the first week in December for the spring semester, contact the Office of the Bursar at 610-436-2552. It is the responsibility of each student to pay/submit the semester bill by the due date. Nonreceipt of a semester bill does not relieve the student of the responsibility of paying/submitting the bill by the due date. Address changes should be made through the Office of the Registrar to allow for sufficient time to reflect an accurate billing address.

Each semester, students have three opportunities to schedule for classes and pay their bills.

(1) Students may schedule during the main scheduling period, which is held during the prior semester. A bill will be mailed to these students four to six weeks before the semester begins. The bill must be paid in full by the due date. Students who are receiving approved financial aid awards that fully cover or exceed the amount of their bills do not have to pay, but they must submit to the Office of the Bursar the appropriate portion of their semester bill to complete registration. Failure to return the bill, even if no payment is due, may result in the cancellation of registration/schedule and the assessment of late penalties. Students who cannot pay their bills in full by the due date may apply for deferred payment (see "Deferred Payment Policy" below). (2) Students who do not schedule prior to the mail payment deadlines may schedule and pay in person prior to the start of the semester. In this

instance, payment must be made at

- the time of scheduling; no bill will be sent in the mail.
- (3) Students who do not take advantage of either of these scheduling opportunities, or who fail to pay their bills as outlined above, must attend late registration. Students at late registration will be expected to pay their bills at the time that they schedule.

Failure to meet the payment deadlines as set forth above could result in cancellation of the student's schedule. In order to have the schedule reinstated, the student would have to pay his or her bill in full as well as a \$35 late registration fee. Students who owe money to the University will have a hold placed on their accounts. If not satisfied, this hold will cancel registration/scheduling for future semesters, prevent the release of transcripts, and prohibit graduation clearance. The University also may, at its discretion, invoke any other penalty appropriate for a particular case in which money is owed to the University.

Deferred Payment Policy

The University extends deferred payment privileges to all students who are in good financial standing and have not defaulted on a previous payment plan. The fee charged for this service is \$35 per semester. For more information about the plan offered, contact the Office of the Bursar at 610-436-2552.

Billing Address Changes

If a student's billing address changes during enrollment at the University, the new address must be given to the Office of the Registrar in the Elsie O. Bull Center to avoid delayed delivery of bills.

Uncollectible Check Policy

A fee of \$25 is charged for any check returned to the University for insufficient funds, stopped payment, or closed account. The University may, at its discretion, charge this fee for any check returned to it for any other reason.

The check will be returned to the student upon its replacement through cash, cashier's check, MasterCard, Visa, American Express, or money order. Students who have two or more checks returned against their accounts will no longer be able to make payment by personal check; all future payments must be made by cash, certified check, MasterCard, Visa, American Express, or money order.

Transcript Fee

The fee for transcripts is \$3 per copy. Transcript request forms are available in the Office of the Registrar. Immediate transcripts are \$5 per request.

Music Instrument Rental Fees

Each student renting a musical instrument for a semester is charged \$20 per instrument. Every student using a pipe organ for practice for one period each weekday is charged \$36 per semester.

Withdrawal Procedure

Students who wish to withdraw from the University after paying their semester or summer session fees must follow the official withdrawal procedure. Withdrawal forms are available in the Office of the Registrar, Elsie O. Bull Center. Completed forms must be returned to that office during the semester or summer session when the withdrawal occurs.

Refund Policy

All requests for refunds for dropped or canceled courses, or for withdrawals, must be made in writing or in person to the Office of the Registrar. Refunds are not automatic; it is the student's responsibility to initiate a refund request. Appeals concerning the refund policy for tuition and the general fee are made to the Office of the Registrar. Appeals concerning the Housing or Meal Fee are made to the Office of Residence Life. Further appeals, if necessary, may be made to the Appeals Committee.

Individual fees will be refunded according to the policies described below.

Tuition – in full prior to the first day of the semester or according to the following schedule once classes have begun. (This schedule assumes that the student account is paid in full and that the percentages apply to the total tuition bill, not to a partial payment of tuition.) 1st or 2nd week(s) of class 90% refund 3rd or 4th week of class 50% refund 5th through 8th week of class 25% refund After 8th week of class No refund No refund will be given if the student drops a course but retains full-time status. or if he/she owes the University money.

The General Fee will be refunded in full prior to the first day of the semester and prorated on a credit-hour basis for a change from full-time to part-time status. A change in the number of credit hours within the full-time status (9 credit hours or above) does not result in a

refund of the General Fee; however, a change within the part-time status (below 9 credit hours) will result in a per-credit-hour adjustment according to the refund schedule used for tuition refunds.

Housing Fee – in full prior to the first day of the semester; after the first day of the semester, prorated refunds are made on an individual basis through the Office of Residence Life.

Meal Fee – in full prior to the first day of the semester; after the first day of the semester, prorated refunds are made on an individual basis through the Office of Residence Life for resident students, and through the Office of the Bursar for commuter students.

Application Fee

A nonrefundable graduate student application fee of \$25 is assessed to all students applying to the graduate program. If a nondegree graduate student (a graduate student not yet officially admitted to the degree program) applies, he/she will pay this fee upon initial application to take a graduate course. He/she will not be assessed this fee again once officially admitted to the degree program.

Commencement Fee

The University charges \$56 to all students enrolled in a degree program who will have fulfilled their degree requirements by the end of the semester. The fee is payable to the Office of the Bursar and should accompany a graduation application form from the Office of Graduate Studies and Sponsored Research.

Parking Fee

The University charges a nonrefundable parking fee to students who are eligible to purchase a decal to use University parking lots. The current parking fee is \$20 per year. Registration forms are available at the Department of Public Safety. A violation of University parking regulations is charged at \$5 per issued ticket.

Library Card/ID Card

In order to borrow books from the library, graduate students must present their ID (identification) card. An ID card can be purchased for a \$2 fee at the SSI Office, Sykes Student Union.

Academic Computing Center ID Card

In order to borrow software and/or use the Academic Computing Center facilities, all graduate students (part-time and full-time students) must present a valid WCU ID card. The ID card is purchased at the SSI Office, Sykes Student Union. (For further information on the cost and hours for pictures, contact SSI at 610-436-2955.)

Fees for Crossover Registration

Students who are admitted to graduate study and need to take undergraduate course work to correct academic deficiencies are advised to enroll in undergraduate courses exclusively, and they will be billed undergraduate fees. Graduate students who are enrolled in graduate and undergraduate courses during the same semester will pay graduate fees for all course work. Further, all such courses or combinations are to appear on a single graduate transcript that includes a code or legend which differentiates between undergraduate and graduate courses. Undergraduate courses appearing on a graduate transcript may or may not be acceptable for a degree program, according to determinations made by the degreegranting department. Undergraduate students with at least a 3.00 GPA and 96 credits of course work may take up to six credits of graduate course work in their final semester in accordance with University policy. If the student wishes to have the credits count towards the bachelor's degree, he/she must submit a completed "Application for an Undergraduate Student to Take a Graduate Course for Undergraduate Credit." If the student wishes to have the credits count towards a graduate degree, he/she must submit a completed "Application for an Undergraduate Student to Take a Graduate Course for Graduate Credit." Both forms are available in the Office of the Registrar. To receive graduate-level credit, the student also must submit a properly completed and approved Graduate School Application for Admission form to the Office of Graduate Studies before completing the appropriate form.

If a course is taken for undergraduate credit by an undergraduate student, no additional fees will be required. If a course is taken for graduate credit, the student must pay graduate tuition and applicable fees for that course. Credit earned and grades received will be recorded on the undergraduate transcript. Credits so earned may later be applied to a graduate program, subject to approval of the major department.

Financial Aid

The purpose of financial aid at West Chester University is to provide financial assistance and counseling to students who can benefit from further education, but who cannot obtain it without such assistance. Financial assistance consists of gift aid in the form of scholarships or grants and self-help aid in the form of employment or loans. The main responsibility for meeting educational expenses rests with students. Financial aid is a supplement to family contributions and is to be used for educational expenses.

Eligibility for financial aid, with the exception of some assistantships and scholarships, is based on demonstrated financial need. Family income, assets, and family size influence the demonstrated financial need of the student.

All documents, correspondence, and conversations among the aid applicant, his or her family, and the Office of Financial Aid are confidential and entitled to the protection ordinarily arising from a counseling relationship.

In order to receive need-based financial aid, the student must:

- Meet enrollment requirements for the specific aid program and must be making satisfactory academic progress. See the office of Financial Aid for a more detailed explanation of this requirement.
- 2. Submit a Free Application for Federal Student Aid before March 1 for priority consideration. *All students, regardless of*

state residency status, must complete this form in order to be considered for financial aid at West Chester University. This application will be used to determine demonstrated financial need for the student. All students are encouraged to complete this application.

 Submit any other requested documentation concerning financial and family circumstances that may be requested by the Office of Financial Aid, or any agency that administers financial assistance programs.

The submission of the information described above does not automatically entitle a student to receive financial aid. The Office of Financial Aid follows the regulations established by the federal government in awarding aid. Aid applicants are ranked according to unmet need (based on budget, federal and state grants, and expected family contribution), and available funds are offered to the neediest students first. Students must apply for financial aid each academic year.

Direct questions concerning financial aid to the Office of Financial Aid, 138 Elsie O. Bull Center, West Chester University, West Chester, PA 19383, 610-436-2627. Office hours are Monday, Tuesday, Thursday, and Friday, 8 a.m. to 4:30 p.m.; and Wednesday, 9 a.m. to 4:30 p.m.

Withdrawal/Enrollment Change and Aid

Students who officially withdraw or change their enrollment status may be entitled to a refund of certain fees, in accordance with University policy. (See section entitled "Fees and Expenses.") If the student has been awarded financial aid for the semester in which the withdrawal or enrollment change occurs, a portion of the refund will be returned to financial aid program funds. Financial aid refunds due to withdrawals or enrollment changes are processed in accordance with federal, state, and awarding agency guidelines and regulations. A student considering withdrawal or an enrollment status change should consult the Office of Financial Aid to determine the impact of that action on current and future financial aid.

Student Consumer Rights and Responsibilities

You have the right to ask a school:

- The names of its accrediting organizations.
- 2. About its programs; its instructional, laboratory, and other physical facilities; and its faculty.
- 3. The cost of attendance and its policies on refunds to students who drop out.
- 4. What financial assistance is available, including information on all federal,

- state, local, private, and institutional financial aid programs.
- What the procedures and deadlines are for submitting applications for each available financial aid program.
- 6. What criteria it uses to select financial aid recipients.
- 7. How it determines your financial need. This process includes how costs for tuition and fees, room and board, travel, books and supplies, personal and miscellaneous expenses, etc., are considered in your budget. It also includes what resources (such as parental contribution, other financial aid, your assets, etc.) are considered in the calculation of your need.
- 8. If you have a loan, you have the right to know what the interest rate is, the total amount that must be repaid, the length of time you have to repay the loan, when you must start repaying it, and any cancellation and deferment provisions that apply.
- If you are offered a work study job, you have the right to know what kind of job it is, what hours you must work, what your duties will be, what the rate of pay will be, and how and when you will be paid.
- 10. To reconsider your aid package, if you believe a mistake has been made.

- 11. How the school determines whether you are making satisfactory academic progress and what happens if you are not.
- 12. What special facilities and services are available to the disabled.

You have the responsibility to:

- 1. Review and consider all information about a school's program before you enroll.
- 2. Pay special attention to your application for student financial aid, complete it accurately, and submit it on time to the right place. Errors can delay your receipt of financial aid.
- Provide all additional documentation, verification, corrections, and/or new information requested by either the Office of Financial Aid or the agency to which you submitted your application.
- Read and understand all forms that you are asked to sign and keep copies of them
- 5. Accept responsibility for the promissory note and all other agreements that you sign.
- 6. If you have a loan, notify the lender of changes in your name, address, or enrollment status.
- Perform in a satisfactory manner the work that is agreed upon in accepting a college work study job.

- 8. Know and comply with the deadlines for application for aid.
- 9. Know and comply with your school's refund procedures.

Federal Perkins Loan Program

The Federal Perkins Loan Program is a cooperative effort of the federal government and West Chester University which enables qualified students to secure educational loans under attractive conditions. Each borrower must:

- 1. Be enrolled or accepted in the institution participating in the program.
- 2. Demonstrate financial need.
- 3. Maintain satisfactory academic progress in the curriculum.

The combined total of undergraduate and graduate loans cannot exceed \$30,000. Approval of loans depends on the student's financial need and the availability of loan funds. The Free Application for Federal Student Aid must be filed. For further information contact the director of financial aid.

Federal Stafford Loan

The Federal Stafford Loan is a cooperative effort of private lending institutions and the state and federal governments which enables qualified students to secure long-term educational loans.

To be eligible for a loan, a student must:

- Be accepted for enrollment in an approved institution or, if enrolled, be making satisfactory academic progress.
- 2. Be classified as at least a half-time student.

The maximum loan per academic year for graduate students is \$18,500 (combined subsidized and unsubsidized) or the cost of the education, whichever is less; no more than \$8,500 of this total loan amount may be subsidized. The total maximum indebtedness for all years of undergraduate and graduate study is \$65,500 subsidized and \$73,000 unsubsidized. Applications for this loan can be obtained at lending institutions (banks).

Graduate Assistantships

A limited number of graduate assistantships are available to qualified, full-time and part-time graduate students. Interested students should consult their department chairperson or graduate coordinator and the Office of Graduate Studies and Sponsored Research to determine the availability of assistantships and their own eligibility. Notification for the first round of awards will be made by May 15. Many assistantships become available after this date or at the beginning of spring semester. To be eligible to receive a graduate assistantship, the student must satisfy the following requirements:

- 1. Must be a fully matriculated, degreeseeking, graduate student; normally, certification students are not eligible, and provisionally accepted students are not eligible unless the provisions are removed before the semester begins. Exceptions must be approved by the graduate dean.
- 2. Have a minimum cumulative GPA of 3.0 for current graduate students (if a graduating senior, the undergraduate GPA must be at least 2.75).
- 3. Must submit a statement of professional goals, three letters of recommendation (using the form provided by the Graduate Office), and the score of one of the standardized tests (e.g., GRE, MAT, or GMAT).
- 4. Must have applied for a graduate assistantship by April 15 to be eligible for a fall semester assistantship, or by October 15 for a spring semester assistantship.

Assignments are made by the department in which the assistantship is located and may involve part-time undergraduate teaching, participation in research projects, or other professional duties under faculty supervision. Applications are available in the Office of Graduate Studies and Sponsored Research.

Full-time graduate assistants, in return for 20 hours of assigned duties per week, receive tuition remission and a stipend of \$5,000 for the academic year. Half-time assistantships involving 10 hours per week of assignments also are available that cover six credits of tuition remission and pay a stipend of \$2,500 for the academic year. Full-time graduate assistants are not allowed to hold other on-campus employment simultaneously. Part-time graduate assistants may work on-campus a maximum of ten hours per week in addition to holding an assistantship.

For maximum consideration for support, applications for the fall semester should be submitted by February 15, although some departments occasionally consider assistantship applications at later dates.

Assistantships also are offered by the Academic Programs and Services Division, Residence Life and Housing, the Academic Computing Center, and other offices. Please contact these offices, the adviser and/or graduate coordinator of your academic program, or the Office of

Graduate Studies for additional information.

Students holding graduate assistantships who fail to maintain good academic standing (minimum GPA of 3.0) will have their assistantships revoked or will not have them renewed. This policy includes courses taken during summer sessions. Departments also may stipulate higher academic standards for maintaining assistantships. Full-time graduate assistantships are given for a maximum of four semesters. Half-time assistantships may be granted for up to eight semesters.

Frederick Douglass Graduate Assistantships

These graduate assistantships are named after Frederick Douglass, a great nineteenth-century American abolitionist and writer and a frequent visitor to West Chester. Douglass gave his last public lecture at West Chester Normal School on February 1, 1895. Applicants with excellent academic credentials may apply for these assistantships. Efforts are made to appoint qualified candidates from historically underrepresented and underserved populations who have leadership experiences in their backgrounds or as part of their academic goals. This consideration is in keeping with the spirit of Douglass' life of public service and the University's mission to be a source of encouragement to the African American, Native American, Hispanic American, and Asian American communities. Holders of Frederick Douglass graduate assistantships divide their service commitment between the Frederick Douglass Institute and an academic department or service unit. These are full-time (20 hours per week) assistantships that provide a tuition waiver and \$5,000 stipend for the academic year. The awards are made on an annual basis and are renewable for a second year. Students may use these assistantships to pursue a master's degree in one of the University's graduate programs. Interested individuals with excellent credentials should contact the Office of Graduate Studies and Sponsored Research, McKelvie Hall, 102 Rosedale Ave., 610-436-2943.

Residence Hall Graduate Assistants

Opportunities to serve as residence hall graduate assistants are open to all full-time graduate students. Graduate assistants live in the University residence halls and assist the full-time, professional

resident director in providing direction for the personal, social, and educational development of the resident students. Residence life graduate assistants are also supervisors for student workers and serve as University judicial hearing officers. These positions are full-time (25 hours a week) graduate assistantships that offer a stipend, tuition remission, and room and meal plan. Preference is given to students enrolled in a counseling or psychology program and to those with prior residence hall living experience. Applications may be made through the Office of Residence Life and Housing, Sykes Student Union, 610-436-3307.

Institute for Women Graduate Grant

The Institute for Women at West Chester University offers an annual grant of \$500 to a woman graduate student who is accepted into a master's degree program at West Chester University. The award is based on high academic achievement; evidence of potential for contribution to the applicant's field of study; a record of leadership in school, community, church, or other setting; and evidence of service to others. Applications, including reference forms, are available from the Office of Graduate Studies and Sponsored Research. Completed materials must be submitted by March 15. Only students who have filed all required admission credentials and plan to enroll for a minimum of six graduate credits are eligible.

Federal Work Study

Graduate students may apply through the Office of Financial Aid for University or federal work study funds. The Free Application for Federal Student Aid also must be filed.

Kinesiology (Physical Education) Department Scholarship

One \$300 scholarship is awarded to a graduate student in kinesiology. Applications should be submitted to the chairperson, Department of Kinesiology.

Special Education Department Scholarship

The Department of Special Education offers a scholarship of \$500 to be awarded annually to a select, nontraditional student. The award is made possible through the Military Order of the Purple Heart, a veterans' organization chartered by Congress for armed forces personnel wounded in combat.

Notification of the award will be made by March 1 of each year. Applications and further information are available from the chairperson, Department of Special Education.

Professor Russell Sturzebecker Scholarship

The Professor Russell Sturzebecker Scholarship is a \$100 award made each semester to a "worthy and needy" graduate student in health and physical education. Through the generosity of Mr. John Unruh, the award is donated in honor of Professor Sturzebecker.

The recipient must be working full time in the field of health and physical education and must be a part-time student at West Chester University working towards a master's degree in his or her professional field.

Graduate students who meet the criteria are invited to submit a letter of application for the scholarship along with a resumé of their professional and academic status. These documents should be submitted to the chairperson of the Department of

Kinesiology before November 15 for the first semester, and before March 15 for the second semester. Selections will be made by a committee of three graduate faculty members of the Department of Health and the Department of Kinesiology.

Application forms are available from the Department of Kinesiology.

Grace Cochran Research on Women Award

An annual \$100 award in each division, graduate and undergraduate, is given for the best research on women. The award, sponsored by the Institute for Women, is given on Research on Women Day held in the spring of each year. Dr. Cochran, an eminent teacher and scholar, graduated from the West Chester Normal School in 1906.

Dr. Charles S. Swope Scholarship Foundation

The Memorial Scholarship Trust
Foundation was established by Charles E.
Swope and Richard M. Swope in memory
of Dr. and Mrs. Charles S. Swope. Dr.
Swope served as president of West Chester
University for a quarter of a century.
Applicants must be enrolled full time and
be graduates of West Chester University.
Scholarships are \$1,000 each. Applications
must be filed on or before April 1.
Selection is made during May, with scholarships commencing in September.

Charles Mayo Scholarship

A financial grant is awarded yearly to an upperclass or graduate student in political science in memory of Charles Mayo, former president of West Chester University. Funded by contributions, the award is administered by faculty of the Department of Political Science. The value of the scholarship is approximately \$200.

Academic Information and Regulations

Time to Complete the Degree Program

All requirements for the master's degree, including courses, comprehensive examinations, and thesis, must be completed within the six years immediately prior to the expected date of graduation.

See also "Degree Candidacy" and "Degree Requirements."

Classification of Students

Students are classified as follows:

A. Matriculated Students

- 1. Full matriculation, granted to a student who meets all admission requirements.
- 2. Provisional matriculation, which may be granted to a student who:
 - a. Has not taken the Graduate Record Examination, the Miller Analogies Test, or a specialized entrance examination required by the department concerned.
 - b. Is unable to present all prerequisites required by the department. Students must fulfill the conditions stipulated in their provisional acceptance by the time that application to degree candidacy is made. Credit earned as a provisional degree student may be accepted towards the degree only on recommendation of the student's adviser.
 - Note: Some programs do not grant provisional matriculation.
- 3. *Teacher certification*, which applies to students taking course work to gain teacher certification.
- 4. *Professional growth*, for students who take graduate course work but seek neither a degree nor certification.

B. Nondegree Students

A nondegree student may be admitted to take a workshop or other credit-bearing class. Nondegree students may schedule up to six credits of course work on a nonmatriculated basis. Additional course work may be taken only after the student has applied and been accepted as a matriculated student into one of the categories described above. Students taking only special courses, such as workshops, are the exception to this rule.

Courses taken under nondegree status may not necessarily be applied to degree programs at a later date. Students should begin the formal application process immediately after they have decided to pursue a graduate degree at West Chester University.

Registration

All active graduate students (those who have maintained continuous enrollment), nondegree students who have attended within the past year, and newly accepted students will receive scheduling materials and registration instructions by mail. Materials for summer and fall semesters are usually available in early April, and for spring semester in early November. Students who anticipate receiving materials but do not receive them should contact the Office of Graduate Studies.

Active Status

See policy on Continuous Enrollment.

Continuous Enrollment

All graduate students who have been admitted into a graduate program must maintain continuous registration each semester (except summer sessions), or must apply for a formal leave of absence. Graduate students who do not wish to register for formal course work, but who desire to maintain continuous enrollment, must register for GSR799, a noncredit registration category used to record the fact of continuous enrollment. Graduate students are not required to maintain matriculation during the summer sessions unless they intend to complete their final degree requirements during this period. With the approval of the graduate coordinator and the dean of graduate studies, a leave of absence may be granted for a minimum of one calendar year. Leave of absence forms may be obtained from the Office of Graduate Studies. A leave of absence does not extend the six-year time limit for completion of all degree requirements.

Unless a graduate student maintains continuous enrollment or is granted a leave of absence, he/she is ineligible to return until readmitted. A formal application for readmission must be completed and submitted to the Office of Graduate Studies. Forms are available in Graduate Studies. Readmission is not automatic and may be subject to additional conditions set by the department, school or college, or by the graduate dean.

Advisory System

All students will be assigned an adviser in the department of their chosen major. Students must comply with all program or department advising and scheduling procedures, and are expected to meet with their advisers at least once each semester during the course scheduling period.

Graduate Level Course Numbering System

500-series graduate level courses to which advanced undergraduates may be admitted

600-series graduate courses not normally open to undergraduates

Course numbering within a series is at the discretion of the department offering the courses.

Undergraduate Courses for Graduate Credit

Some departments have identified selected undergraduate courses that may be taken by graduate students (under departmental advisement) for graduate credit. No more than six credits of specifically designated 400-level courses may be applied to the awarding of the graduate degree. See departmental listings.

Workshops

The number 598 following the departmental prefix indicates an "open" workshop that allows the departments to offer a variety of short-term seminars in specific subjects under this designation. Such workshops may or may not carry credit in a graduate degree program.

Condensed Format Courses

A condensed format course is any course that meets the normal number of hours per credit but which meets in a shorter time frame than one week per credit granted. The number of contact hours needed to earn a credit in a condensed format course minimally must comply with the contact standards set down by national undergraduate and graduate accrediting agencies. No more than two courses designated as "condensed format" may count toward a graduate degree. Courses designated as interdisciplinary, writing emphasis, or general education courses are not eligible to be taught in the condensed format.

Student Load

The normal work load for a full-time student during the fall and spring semesters is nine semester hours. The load may be increased if approval has been obtained from the student's adviser.

During the summer session, the normal work load is one semester hour of work for each week of enrollment. Generally, students may take a maximum of 12 credits during the summer sessions. Exceptions to this policy must be approved by the dean of graduate studies and sponsored research.

Course Credit by Examination

Credit by examination may not be taken for graduate course work.

Pass/Fail Grades

The pass/fail option is not available to graduate students for graduate or undergraduate courses.

Transferring Credit from Other Institutions

West Chester students who wish to take course work at other institutions for credit at West Chester University must first obtain approval from their chairperson or graduate coordinator and the dean of graduate studies and sponsored research. Other restrictions and requirements are the same as those given in "Transfer of Credit," page 5.

Change of Status

A provisional degree student who has met the various conditions stipulated at the time of admission may petition for full graduate standing by submitting a written request to the Office of Graduate Studies and Sponsored Research. Credit earned as a provisional degree student or as a nondegree student may be accepted in a degree program only on the recommendation of the student's adviser. Provisional degree students should consult their advisers well in advance in order to select work appropriate for transfer toward the degree.

Changing to Auditor Status

Before the end of the add period, a student may apply to become an auditor by completing a Change in Class Status Form available in the Office of Graduate Studies and Sponsored Research and by obtaining the necessary approval.

Changes in Program

In order to change from one degree program to another, a student must submit an

application to the Office of Graduate Studies and Sponsored Research. The student must meet all specific admission requirements of the program for which the change is requested. No fee is charged.

Adding a Course

Students may add a course by filing a Schedule Change Form in the Office of the Registrar or the Office of Graduate Studies and Sponsored Research during the schedule change period and after obtaining approval from their program adviser or graduate coordinator, and the dean of graduate studies and sponsored research.

Dropping a Course

- A. During the first week of a semester, or the equivalent time in summer sessions, a student may drop a course, thereby receiving no grade, by filing a Schedule Change Form in the Office of the Registrar or the Office of Graduate Studies and Sponsored Research during the schedule change period.
- B. A grade of W will be entered on the academic record of any student who drops a course between the end of the first week and before the end of the ninth class week or the equivalent in summer sessions.

After the end of the Withdrawal period (ninth week), students *may not* withdraw selectively from courses; they must withdraw from the University. The University will record an "EW" (for emergency withdrawal) for all courses in which the student is registered.

EW is *not* a grade. It does not affect the GPA, and it does not count as completion of prerequisites; it remains on the transcript and does not convert to an F after some deadline, as does the NG. A student may graduate with EW on the transcript. A student may not have an EW in some courses and letter grades in others for any given semester. If a student later returns to the University and retakes courses in which he/she was given an EW, the grades in those attempts will not go back and replace the EW, nor will this be counted as a repeat of the course.

Students must be registered for at least one course, or they must withdraw from the University. See "Withdrawal from the University" below.

Withdrawal from Courses in Summer Sessions

Students wishing to withdraw from summer sessions should follow the same

procedure for withdrawal from a course. Withdrawal deadlines are adjusted appropriately in accordance with the summer calendar.

Withdrawal from the University

Students wishing to withdraw from the University must go to the Office of the Registrar and follow the prescribed procedures. If illness or some other emergency interrupts the student's work, he or she must notify the Office of the Registrar immediately. Unless a student withdraws officially, F grades will be recorded for unfinished courses. The student also must notify the Office of Graduate Studies and Sponsored Research of his or her withdrawal from the University.

Leave of Absence

Students in a degree program who will not be registering for course work during the fall or spring semesters should file a request for a leave of absence with the dean of graduate studies. A leave of absence may be granted for a minimum of one calendar year. The request should be filed in advance of the semester in which course work is halted. Approved leaves of absence do not release the student from the six-year time limitation stipulated for the completion of degree requirements. Leave of absence request forms may be obtained from the Office of Graduate Studies.

Grading System

The following grading system applies to graduate students:

Grade Definitions:

Grade	Quality Points	Interpretation
A	4.00	Superior graduate attainment
A-	3.67	
B+	3.33	Satisfactory graduate attain-
ment		Same and a same
В	3.00	
B-	2.67	
C+	2.33	Attainment below graduate
C	2.00	expectations
C-	1.67	
D+	1.33	Credit not accepted toward
D	1.00	any graduate program
D-	0.67	(See course repeat policy
		for all grades below C-)
F	0	Failure
EW		Emergency Withdrawal
NG		No Grade
W		Withdrawal
Y		Administrative
		Withdrawal
AU		Audit

I (Incomplete) is a temporary grade replaced by NG in 1980. NG (No Grade) is given when a student fails to complete course requirements by the end of a semester and a time extension is granted by the instructor; see "Removing 'No Grade' Designation" below.

W (Withdrawal) is given when a student withdraws from a course between the end of the first and the end of the eighth class week of the semester or the equivalent in summer sessions.

EW (Emergency Withdrawal) is explained in the section "Dropping a Course."

Y (Administrative Withdrawal) is given under appeal when there are nonacademic mitigating circumstances, and there is documentation that the student never, in fact, attended class.

Course Repeat Policy

Graduate students must repeat courses applied to the degree for which they have received a grade of less than C- and all courses for which the program or department has a higher standard. Courses may be repeated only once. Both grades received for a course will remain on the student's record, and both grades will be used to calculate the cumulative and major averages.

Removing "No Grade" Designation

Students must complete courses for which they have received a No Grade (NG) by the completion date stipulated by the instructor, and no later than the end of the first nine weeks of the next semester or the NG will become an F. The nine-week requirement does not apply to independent study, thesis, research report, practicum, or recital credit.

Grade Change Policy

A grade awarded other than NG is final. Final grades can be changed only when there is a clerical or computational error. If the student thinks there is an error, the student must report the alleged error in writing to the professor as soon as possible, but no later than the end of the fifth week of the following semester. If a grade change is warranted, the professor must submit a change of grade request to the Office of the Registrar not later than the end of the ninth week of the semester. Final grades cannot be changed after the ninth week of the semester following the alleged error.

Grade Reports

Grade reports will continue to be mailed to graduate students for the immediate future. Reports will be mailed to the student soon after the end of a semester or summer session. Students are reminded to check their reports against grade requirements and other regulations, as well as for accuracy, and to have their grade reports available when consulting with advisers.

Grade Appeals

Scope of the Policy

The Grade Appeals Policy applies only to questions of student evaluation. Since appeals involve questions of judgment, the Grade Appeals Board will not recommend that a grade be revised in the student's favor unless there is clear evidence that the original grade was based upon prejudiced or capricious judgment, or was inconsistent with official University policy. In the case where the grade was based on a charge of cheating, the Academic Dishonesty Policy applies (see below). Academic dishonesty includes but is not limited to:

- Plagiarism, that is, copying another's work or portions thereof and/or using ideas and concepts of another and presenting them as one's own without giving proper credit to the source;
- 2. Submitting work that has been prepared by another person;
- 3. Using books or other materials without authorization while taking examinations;
- 4. Taking an examination for another person, or allowing another person to take an examination in one's place;
- Copying from another's paper during an examination or allowing another person to copy from one's own and/or
- 6. Unauthorized access to an examination prior to administration.

Grade Appeals Procedure

- 1. (a) A student must initiate an appeal in writing within 20 class days from the date of the decision or action in question. In case of an appeal of a final grade, the appeal must be filed no later than the first 20 class days of the term following the one in which the grade was received. This written appeal should be sent to the instructor who awarded the grade in question. The appeal shall be received by the student and the faculty members. They shall mutually attempt to resolve the appeal within five class days from the receipt.
 - (b) If the appeal is based on an interpretation of departmental or University policy, the student's academic adviser may also be present during the review process. In such case, there shall be a limit of five

- class days in which to resolve the appeal.
- 2. An appeal not resolved at Step 1 shall be referred in writing by the student within five class days after the completion of Step 1 to the chairperson of the department of which the course in question is a part. If there is a departmental appeals committee, the problem shall be referred directly to it. The department chairperson or the departmental appeals committee shall normally submit a written response to the student within 10 class days following receipt of the written statement of the problem. A copy of this response shall also be provided to the instructor.
- 3. If no mutually satisfactory decision has been reached at Step 2, the student may submit a written appeal to the dean of the college or school in which the problem originated. Such an appeal shall be made within five class days following the receipt of the written response of the department chairperson or the departmental appeals committee. The dean shall investigate the problem as presented in the written documentation, review the recommendation and provide, in writing, a proposal for the solution of the problem within 10 class days following its referral.
- 4. If the problem is not mutually resolved by Step 3, the student may file an appeal with the Grade Appeals Board within five class days of the receipt of the written proposal from the dean. The request for an appeal must be submitted to the associate provost or, if appropriate, to the dean of graduate studies who will convene the Grade Appeals Board as soon as possible, but no later than 15 class days after the receipt of the written request.

Grade Appeals Board

- 1. Membership
 - A. The associate provost (or, if appropriate, the dean of graduate studies) serves as nonvoting chairperson. If the associate provost is not available to serve, the administration will appoint a substitute mutually acceptable to the student and the Association of Pennsylvania State College and University Faculties (APSCUF).
 - B. A faculty dean not involved in the appeals process. A substitute may be appointed as given in "A" above.
 - C. Two faculty members. At the beginning of each academic year, the Office of the Associate Provost

- shall randomly select two full-time faculty from each academic department in order to constitute the pool. Two faculty members from different departments will be randomly selected from this pool for each Appeals Board.
- D. Two undergraduate students or, if appropriate, two graduate students appointed by the president of the Student Government Association (SGA).

2. Attendance

- A. The faculty member involved may be assisted by an adviser, an APSCUF representative, or the chairperson of the department in which the problem originated.
- B. The student involved may be assisted by an adviser. The adviser may be another student, an administrator, or a faculty member.
- C. Such witnesses as are called on behalf of either the faculty member or the student.
- D. Resource persons or expert witnesses called at the request of the board. In the event that the decision making involves knowledge of the discipline, the board shall be required to utilize at least one resource person from the discipline, an expert adviser(s) to aid them in their decision making.

3. Procedure

- A. Preparation for the Hearing All parties must be informed of the complaint in writing by the chairperson of the Grade Appeals Board (hereafter referred to as "chairperson"), normally within five class days after the receipt of the complaint. Copies of documents and correspondence filed with respect to the complaint shall be provided to the interested parties through the chairperson. Thereafter, neither new evidence nor new charges shall be introduced before the board. The chairperson shall notify in writing the interested parties of the exact time and place of the hearing and shall provide existing University and/or Commonwealth policies relevant to the appeal at least five class days before the beginning of the proceedings. Throughout these proceedings, the burden of proof rests upon the person bringing the appeal.
- B. Hearing Procedure During the hearing, both the faculty member and the student shall be accorded

- ample time for statements, testimony of witnesses, and presentation of documents.
- C. Decision of the Appeals Board
 - 1. The Grade Appeals Board shall deliberate in executive session and render a decision by majority vote within three days of the close of the hearing. The chairperson may participate in these deliberations but not vote.
 - 2. The chairperson shall notify, in writing, the student, the faculty member, and the department in which the course in question is located of the decision within three class days of the board's final action. The notification shall include the basis upon which the decision was reached.

4. Other

- A. A written statement of the decision and relevant materials shall be placed in the student's academic file.
- B. A written statement of the decision and relevant materials shall be placed in the faculty member's file subject to the provisions of official Commonwealth policy governing personnel files.

Notes

- 1. Both faculty member and student are entitled to the right of challenge for cause of any member of the department committee (if used) and the Grade Appeals Board except the chairperson. In the case of challenge at the Appeals Board level, the chairperson shall adjudicate the challenge. One challenge at each level is permitted.
- 2. A "class day" is defined as any day when classes are officially in session at West Chester University.
- 3. If the course in which the grade dispute occurred is offered under the auspices of a unit of the University other than an academic department, the program director/coordinator, head of that unit, and/or the department chairperson will function in Step 2 of the procedure. In Step 3, the appeal should then be made to the associate provost rather than the dean of the college/school.
- 4. If the professor is not on contract or in residence on the campus, he or she shall have the right to defer the procedure until his or her return. Similarly, if the procedure would normally occur during the summer and the student is not enrolled in any summer session, the procedure may be deferred until the fall semester at the student's request.

Academic Dishonesty Policy

- 1. Academic Dishonesty Process
 - A. Academic dishonesty is prohibited and violations may result in discipline up to and including expulsion from the University. Academic dishonesty as it applies to students includes but is not limited to academic cheating; plagiarism; the sale, purchase, or exchange of term papers or research papers; falsification of information, which includes any form of providing false or misleading information, written, electronic, or oral; or of altering or falsifying official institutional records. Plagiarism is defined as copying another's work or portions thereof and/or using ideas and concepts of another and presenting them as one's own without giving proper credit to the source. NOTE: The Student Code of Conduct covers theft or attempted theft of property or services; destruction; vandalism; misuse or abuse of the real or personal property of the University, any organization, or any individual.
 - B. Charges of academic dishonesty against a student may be brought by any member of the University community. Students making claims of dishonesty must do so under the guidance of the appropriate involved faculty member or office director. A written charge must be initiated within 20 calendar days from the date of the alleged action. However, if the alleged action occurs during the last 20 calendar days of the semester, the charger has 20 calendar days into the subsequent semester to make the charge. The last day of the semester is the last day of final examinations. NOTE: If the charger is not on contract or in residence on the campus, he or she shall have the right to defer the procedure until his or her return. Similarly, if the procedure would normally occur during the summer and the charger is not enrolled in any summer session, the procedure may be deferred at the charger's request.
 - C. Charges of academic dishonesty may be dealt with informally, by mutual agreement of the person bringing the charges and the student. A written agreement of the settlement shall be signed by both sides. An instructor

- may, on his/her own authority, apply a penalty to the student's grade, including failure in the course. If additional sanctions are requested by the instructor, the appeals process must be employed and an academic integrity hearing must be convened. A student may appeal the instructor's unilateral imposition of a penalized or failing grade. A student who files an appeal will suffer no worse penalty as a result of the appeal than he/she would have suffered if he/she had not appealed the instructor's unilateral action.
- D. If the informal process has not been employed or either party is not satisfied with the resolution under (C) above, then that party shall, within 10 calendar days, submit written notification to the department chair or unit director. The department shall then, within 20 calendar days, handle the matter according to its own written procedures and provide written notification of its decision to all parties.
- E. If either party is not satisfied with the resolution reached in (D) above, that party may, within 20 calendar days of the department's decision, appeal the matter in writing to the dean or, in the absense of the dean, another appropriate administrator. The dean or administrator shall then, within 20 calendar days, handle the matter according to his/her written procedures and provide written notification to all parties.
- F. If either party is not satisfied with the decision of the dean or administrator, that party may, within 10 calendar days, appeal the matter in writing to the Academic Integrity Board.
- II. Membership of the Academic Integrity Board
 - A. The provost (or provost's designee) shall appoint faculty and administration members of the Academic Integrity Board. The associate provost (or, if appropriate, the dean of graduate studies) serves as nonvoting chairperson. If the associate provost or dean of graduate studies is not available to serve, the administration will appoint a substitute.
 - B. A faculty dean not involved in the charging process. A substitute may he appointed as given in (A) above.
 - C. Two faculty members. At the beginning of each academic year, the Office of the Associate Provost shall randomly select two full-time

- faculty from each academic department in order to constitute the pool. Two faculty members from different departments will be randomly selected from this pool to serve on the Academic Integrity Board.
- D. Two undergraduate students or, if appropriate, two graduate students, appointed by the president of the Student Government Association (SGA) or president of the Graduate Student Association (GSA), respectively.
- III. Hearing Procedures for Academic Integrity Board The chair will provide notice to all parties.
 - A. Hearings shall proceed to the extent possible according to the following form:
 - 1. The chair shall open the proceedings by reading the statement of charges;
 - 2. The charging party shall then present the case against the accused party. This shall be done by the submission of written, physical, and testimonial evidence. The accused party and the board shall have the right to conduct reasonable questioning of the charging party and the charging party's witnesses;
 - 3. At the conclusion of the charging party's presentation, the accused party may present a defense or may plead to the charges. This shall be done by the submission of written, physical, and testimonial evidence. The charging party shall have the right to conduct reasonable questioning of the accused party and the accused party's witnesses;
 - 4. After both cases have been presented, the board shall allow rebuttal evidence:
 - 5. At the close of the hearing, the board shall allow closing arguments by the parties.
 - B. The board chair shall have authority and be responsible for maintaining an orderly procedure throughout the hearing.
 - C. All hearings are closed proceedings; witnesses may be excluded from the room until the appropriate time for their testimony.
 - D. The burden of proof rests on the individual bringing charges.
 - E. All matters upon which the decision will be based must be introduced into evidence at the hearing.
 - F. Both parties shall have the right to be assisted by advisers, who may be

- attorneys, and who may be present at hearings. The board chair must be notified in advance of the hearing who the advisers will be. The advisers may only consult and interact privately with their advisees, and may not address the board.
- G. All hearings will be tape recorded.

 The audiotape record of the hearing will be archived in the Office of the Provost or the Office of the Dean of Graduate Studies, or his/her designee for five years. A written transcript of the hearing will be provided at the expense of the University pursuant to a validly issued subpoena.
- H. A written recommendation based on a preponderance of evidence, arrived at by majority vote, in which the facts and reasons for the recommendation are set forth shall be issued within 15 calendar days after the close of the board proceedings and shall be sent to the provost and vice president for academic affairs with copies to all parties. Within 15 calendar days the provost shall implement the recommendation of the board or shall provide a written response containing his/her decision and explaining to all parties his/her reasons for declining to implement the board's recommendation.
- Any party who fails without appropriate reason to appear at the hearing consents to the conduction of the hearing in his or her absence.
- J. The board retains the right to continue a hearing whenever necessary and appropriate.
- K. Either party may express its reaction in writing regarding the recommendation of the board to the provost or his/her designee within seven calendar days. Any stay of sanction shall be granted only upon application to and at the sole discretion of the provost or his/her designee. The decision of the provost shall be final.

 NOTE: A written statement of the designer and relevant materials.

NOTE: A written statement of the decision and relevant materials shall be placed in the student's academic file and sent to the student's academic adviser. In the absence of a student appeal, the recommended sanctions from the department and dean's level should be forwarded from the dean's office to the provost for action.

IV. Sanctions

- A. At the conclusion of the appeals process, a student may be exonerated or subject to any combination of the following range of penalties. If a student has a record of past violations of the Student Academic Dishonesty Policy as adjudicated by the Academic Integrity Board, then the board will review that record and consider it when applying sanctions. The board shall have no knowledge of that record when making its initial adjudication of the case.
 - 1. The board with the approval of the instructor may apply a penalty to the student's grade, including failure in the course.
 - 2. Disciplinary probation: The student is informed in writing that he or she is being placed on disciplinary probation for a specific period of time. This action is a period of official censure. A probation action may specify any conditions with which the individual must comply or any privileges which may be withheld. Probation may include the loss of privilege to represent the University in official capacity including but not limited to varsity and nonvarsity intercollegiate events, plays, and holding office in campus government or related organizations. If at any time during his or her probationary period the student violates University regulations, he or she may be subject to further disciplinary action from the University.
 - 3. Suspension: The student is informed in writing that he or she is being involuntarily suspended from the University for a designated period of time. The dean of students must be notified of the suspension. A student shall lose student status and may not attend classes, take exams, receive grades, or be on University property except for authorized University business during the suspension period. Authorized University business must be approved in advance by the provost and vice president for academic affairs or designee. After the designated period of time, the student must seek

- approval from the provost and vice president for academic affairs or designee to reapply to return through the Office of Admissions. The board may establish additional requirements which must be fulfilled to the satisfaction of the provost and vice president for academic affairs or designee prior to reinstatement. There will be no refunding of fees. The assignment of grades shall be in accordance with University policy.
- 4. Expulsion: The student is informed in writing that he or she is being expelled from the University. This action is one of involuntary separation from the University. The relationship between the student and this University is permanently terminated. The student is not permitted on University property. There will be no refunding of fees. The assignment of grades shall be in accordance with University policv. The fact of the expulsion and the reason for it will be entered upon the student's official transcript and upon all copies thereof. A student who has been expelled for academic dishonesty will not be awarded a degree from West Chester University.
- 5. Restitution: Restitution may be imposed on students whose violation of these standards has involved monetary loss or damage. Restitution as imposed by the board will be regarded by the University as a financial obligation to the University.
- 6. Hold on records: The University may withhold transcripts, grades, degrees, diplomas, or other official records pending the disposition of cases.

Notes

- If the charger is not on contract or in residence on the campus, he or she shall have the right to defer the procedure until his or her return. Similarly, if the procedure would normally occur during the summer and the charger is not enrolled in any summer session, the procedure may be deferred until the fall semester at the charger's request.
- Each department must submit to the academic dean its written process for hearing appeals. Likewise, each academic dean must submit to the provost

- and vice president for academic affairs his or her written process for hearing appeals. These processes must, as a minimum, provide notice to all involved parties and must provide an opportunity for all parties to be heard by a neutral fact finder or body who will render a decision.
- 3. A written statement of the decision and relevant materials shall be placed in the student's academic file and sent to the student's academic adviser. In the absense of a student appeal, the recommended sanctions from the department and dean's level should be forwarded from the dean's office to the provost for action.

Obtaining Transcripts

Transcripts of work taken at West Chester University may be obtained from the Office of the Registrar. A check or money order, payable to West Chester University, must accompany a written request that should include the period of attendance at the University, degree status, the curriculum pursued, Social Security number, and any change of name during enrollment. For a description of the transcript fee, see "Fees and Expenses."

Changes in Name or Address

Students should immediately notify the Office of the Registrar, the Office of Graduate Studies and Sponsored Research, and their department of any change of address or change in name.

The Comprehensive (Area of Specialization) Examination

A comprehensive examination covers the student's major field and is constructed, administered, and evaluated by the faculty of the student's major department or program. Candidates must apply for the examination with the department. They are not eligible to take the examination prior to the semester in which all courses in the major discipline are completed.

Defense of Master's Thesis

Students who write a master's thesis must have a thesis proposal approved. The completed thesis must be successfully defended before a faculty examining committee. The requirement of the University is that a student passing the thesis defense will receive no more than one negative vote from the examining committee. However, in a number of departments, a unanimous positive vote of the examining committee is required for a successful defense. Thesis students

should check departmental requirements with the graduate coordinator.

Other Examinations

Other examinations may be required of degree students. All requirements given under the heading of the particular program should be carefully noted.

Research Requirements

Students should consult specific programs to determine whether independent study directed toward either the thesis or a research report is required, offered optionally, or omitted.

Application for Graduation

Each candidate for a master's degree must submit the following items to the Office of Graduate Studies and Sponsored Research: (1) a form indicating intent to graduate, with a copy to the chairperson of the candidate's department; (2) a check for \$56 made payable to the Commencement Fund; (3) a Commencement Fund Invoice Form; and (4) a Cap and Gown Order Form. All of these forms are available in a packet from the Office of Graduate Studies and Sponsored Research. The following are deadline dates for applying to graduate: May graduation— February 1; August graduation— June 1; December graduation—October 1.

Submitting the Thesis for Binding

After approval by the examining committee, theses must be typed in accordance with specifications contained in the "Guide to the Preparation of the Master's Thesis," a copy of which may be obtained from departmental offices or the Office of Graduate Studies and Sponsored Research. After the dean of graduate studies and sponsored research has approved the thesis, the student is responsible for transmitting all required copies to the library for binding.

Second Master's Degree

Students wishing to obtain a second master's degree from West Chester University must meet all academic requirements set by the Office of Graduate Studies and the department concerned. Candidates for a second master's degree must earn a minimum of 24 credits beyond the hours applied toward the first master's degree earned at West Chester University. All new credits and additional departmental academic requirements must have been completed

within a six-year period preceding the awarding of the second degree.

Graduates Seeking Initial Teaching Certification

College graduates who wish to obtain initial teaching certification (Instructional I) should contact the Teacher Education Center in Room 251 of the Francis Harvey Green Library.

Permanent Teaching Certification

The Instructional II (Permanent)
Certificate is a permanent certificate
issued to an applicant who has completed three years of satisfactory teaching on
an Instructional I Certificate, attested to
by the superintendent of the school district in which his or her most recent service was performed, or, in the case of an
intermediate unit, the executive director,
or in the case of an approved nonpublic
school, the chief school administrator. In
addition, the applicant must complete 24
semester hours of collegiate study at an
approved four-year institution after
receiving a baccalaureate degree.

IN-SERVICE PROGRAMS—The 24semester-hour requirement may be satisfied, in whole or in part, through in-service programs approved by the Secretary of Education of the Commonwealth.

Educational Specialist Certification

Commonwealth regulations also provide for certification as an educational specialist to those persons who successfully complete an approved program of study and have the recommendation of the training institution. The Educational Specialist Certificate is issued on two levels.

Educational Specialist I (Provisional)

The Educational Specialist I Certificate is issued for entry into a professional position in the schools of the Commonwealth. The applicant must have completed an approved program of study, possess a baccalaureate degree, and been recommended for certification by the preparing institution.

Educational Specialist II (Permanent)

The Educational Specialist II Certificate is a permanent certificate issued to an applicant who has completed three years of satisfactory service on an Educational Specialist I Certificate, and who has completed 24 semester hours of postbaccalaureate or graduate study at a regionally approved institution. In addition, the appli-

cant must have received the recommendation of the superintendent of the school district in which his or her most recent service was performed, or in the case of an intermediate unit, the executive director, or in the case of an approved nonpublic school, the chief school administrator. On June 1, 1987, the Pennsylvania State Board of Education implemented revisions to the Pennsylvania Code. These revisions require all students who apply for Pennsylvania teaching certificates to pass state competency tests in basic skills, general knowledge, professional knowledge, and specific knowledge of the subjects in which they seek teacher certification.

As changes are made in requirements for all certification programs, it is the student's responsibility to satisfy the new requirements.

Professional Certification

Several departments and programs, in addition to offering degrees, offer professional certificates on completion of a prescribed course of study. Consult the individual department or program listings regarding offerings.

The Frederick Douglass Institute

The Frederick Douglass Institute at West Chester University is an academic program for advancing multicultural studies across the curriculum and for deepening the intellectual heritage of Frederick Douglass, the former slave, distinguished orator, journalist, author, and statesman. Douglass, who was a frequent visitor to the West Chester area, gave his last public lecture on West Chester's campus on February 1, 1895. Thirty years earlier, at the inauguration of a Baltimore, Maryland, institute named for him in October 1865, Douglass said that the mission was "to be a dispenser of knowledge, a radiator of light. In a word, we dedicate this institution to virtue, temperence, truth, liberty, and justice."

At West Chester University, the Douglass Institute is primarily involved in four academic areas: 1) conducting research in multiculturalism and on Frederick Douglass; 2) sponsoring distinguished exhibits and lectures; 3) establishing opportunities for advanced study for public, private, and collegelevel teachers; 4) and, collaborating with historical societies and other educational and cultural agencies.

The activities of the institute take place on and off campus. With undergraduate and graduate students, and West Chester faculty, the institute sponsors seminars and forums on selected topics. The Anna Murray Douglass Circle is the name for a lecture series offering a platform for today's leading intellectuals. Annually in October, the institute sponsors Douglass Days, a festival of educational activities on Douglass and multiculturalism that involves the entire campus and surrounding communities. For further information, call Dr. C. James Trotman, director, Frederick Douglass Institute at 610-436-2766.

Directory Information

The Family Educational Rights and Privacy Act defines the term "directory information" to include the following categories of information: the student's name, addresses, telephone numbers, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, and the most recent educational agency or institution attended by the student. The University will limit information that is made public to categories such as these but will not necessarily publish all such information in every listing.

Students who do not wish to have any or all of such "directory information" published without their prior consent must file notice—undergraduates in the Office of the Registrar, and graduate students in the Office of Graduate Studies and Sponsored Research and in the Office of the Registrar. A signed, dated statement specifying items not to be published must be brought by the stu-

dent to the appropriate office within the first 15 calendar days after the beginning of the fall semester.

ADA Policy Statement

West Chester University is committed to equality of opportunity and freedom from discrimination for all students, employees, applicants for admission or employment, and all participants in public University-sponsored activities. In keeping with this commitment, and in accordance with the Americans with Disabilities Act of 1990 and the Rehabilitation Act of 1973, the University will make every effort to provide equality of opportunity and freedom from discrimination for all members of the University community and visitors to the University, regardless of any disability an individual may have. Accordingly, the University has taken positive steps to make University facilities accessible to individuals with disabilities and has established procedures to provide reasonable accommodations to allow individuals with disabilities to participate in University programs. The director of the Office of Social Equity has been designated as the ADA coordinator for the University. In this capacity, the director of Social Equity works with the University ADA Committee to advance University policies and procedures that will provide equal educational and employment opportunities for individuals with disabilities. The Office of Social Equity has an established process to investigate and address any complaints of discrimination on the basis of a disability. Any individual who has a suggestion, question, or complaint regarding ADA issues is encouraged to contact the director of

Social Equity, 13/15 University Avenue, 610-436-2433.

West Chester University has also established the Office of Services for Students with Disabilities, which operates as a centralized service for addressing the needs of students with disabilities and as a resource center for students, faculty, and staff. A student who wants to request an accommodation and/or receive specialized services should contact the director of the OSSD. The policies and procedures used by the OSSD are contained in the West Chester University Handbook on Disabilities, which is available in the OSSD, 105 Lawrence Center, V/TDD 610-436-3217.

Various housing facilities and services are available for resident students with disabilities. For this and other information about on-campus housing and food service, please contact the Office of Residence Life and Housing, 238 Sykes Student Union, 610-436-3307.

The employment manager of the Office of Human Resource Services has been designated as the contact person for employees and applicants seeking to request an accommodation. The employment manager is located at 201 Carter Drive, 610-436-2800.

West Chester University is involved in the ongoing process of renovating campus buildings to ensure accessibility for all individuals. Many of our buildings are currently accessible, but some are awaiting renovation. To find out whether a particular location is accessible or how to access a location, please contact the space manager at 610-436-3348. To make arrangements for changes to a particular facility to ensure accessibility, please contact the manager of campus projects at 610-436-2651.

University Services and Student Living

Francis Harvey Green Library

The Francis Harvey Green Library offers the graduate student an excellent environment for study and research. Housed in a modern, six-floor complex, the library provides a variety of services and facilities in support of graduate research and study.

The general collection of over 533,097 volumes and over 2,800 periodicals is augmented by an extensive micromedia collection of more than 350,000 volumes, including books, periodicals, newspapers, doctoral dissertations, maps, and an extensive collection of government publications. The total resources of over 833,047 volumes compare favorably with other major public and private research libraries in the West Chester area. The special collections include the Chester County Collection of Scientific and Historical Books; the Normal Collection (publications by faculty and alumni); the Ehinger Collection (a collection of historical books on physical education); the Biographies of the Signers of the Declaration of Independence by John Sanderson; and the Shakespeare Folios. Also worthy of note are the collections of children's literature, instructional media and music, and the Philips collection of autographed books.

The University library, through its staff of 13 professional librarians, provides the services required by students and faculty working in all areas covered by the University's instructional programs. Among the many services are reference, computerized on-line literature searching, access to databases and information resources via the Internet, interlibrary loan, and photoduplication. Use of the library is enhanced by an online catalog, automated circulation system, and a computerized network of indexes and abstracts on CD-ROM.

Housing

West Chester provides housing facilities for its graduate students on a limited basis for the regular school year and all summer sessions. Graduate students may be housed either in a North Campus undergraduate residence hall, which includes a 24-hour quiet hour option, or in selected units of the South

Campus apartment complex. Students in the undergraduate halls must be on the University meal plan; apartment residents have the option of any meal plan offered or no plan at all. Undergraduate hall rooms are all double occupancy; apartments are designed for five occupants in combinations of double and single bedrooms. Graduate students are expected to abide by all regulations appropriate to their living arrangements. Upon acceptance to graduate study, students may contact the Office of Residence Life and Housing for additional information and applications for on-campus housing. The availability of on-campus housing varies based on the time of year that the request is made. For assistance in locating a dwelling or apartment off campus, students may contact the Off-Campus and Commuter Services program.

The Office of Residence Life and Housing is located in 238 Sykes Student Union, 610-436-3307.

Off-Campus and Commuter Services

Services to off-campus and commuter students, which are coordinated by the assistant director of Sykes Union, include off-campus housing listings and the Council of Commuter and Off-Campus Students, which provides special programming and resource materials. Additional services offered to off-campus students include landlord/tenant legal aid information and development of long-range plans on the profile and needs of off-campus students.

Off-Campus and Commuter Services and the assistant director of Sykes Union are located in 116 Sykes Student Union, 610-436-2984.

Off-Campus Housing

Students who choose to live in the community must secure their own living accommodations. The Off-Campus and Commuter Services program will assist students in finding housing by providing up-to-date listings of available housing and landlord evaluations completed by students. These listings and evaluations are available in 238 Sykes Student Union. These same listings may also be

accessed on the Internet at http://mainvm.wcupa.edu/public/qryoch.proc.

Student Health Center

The University maintains a Student Health Center staffed by physicians, nurse practitioners, and registered nurses. The Health Center staff is available to meet emergency and first-aid needs, and to perform routine treatment of minor illnesses and minor surgical conditions. The Health Center also offers programs designed to enhance wellness, disease prevention, and health education.

Part-time graduate students must pay the student health fee to be eligible for services. The University does not furnish other medical care or bear the costs of medical or surgical treatment or hospitalization. The community of West Chester has qualified physicians and excellent facilities at the Chester County Hospital. The Student Health Center is located on the second floor of Wayne Hall and is open Monday through Friday from 8 a.m. until 8 p.m., and Saturday from 10 a.m. to 6 p.m. Any emergencies during the night and on Sundays must be treated at the Chester County Hospital Emergency Room. The Health Center phone number is 610-436-2509.

Graduate students, their spouses, and dependents may take advantage of a group medical illness and accident insurance policy approved by the University. Under the same group plan, there is a separate summer policy. See the Student Health Center for information and brochures.

Faculty and staff are treated for emergencies **only**.

Services for Students with Disabilities

The Office of Services for Students with Disabilities (OSSD) offers services for students with physical and learning disabilities. The OSSD is designed to assist students to make a successful transition to the University. We take a proactive stance that encourages students to understand their needs and strengths in order to best advocate for themselves.

The OSSD is located within the Academic Programs and Services Division and coordinates services with the other units within the division, such

as the University Tutoring Center and the Academic Advising Center, as well as other University offices including the Writing Center and the Office of Residence Life and Housing. Liaison with governmental agencies and private practitioners for provision of services is also available through the OSSD. In order to ensure continuity of services, students should pursue such actions prior to enrollment. Students needing financial support for personal services or interpreters should register with the appropriate agency at least six months in advance of matriculation.

Office of Services for Students with Disabilities

105 Lawrence Center West Chester University West Chester, PA 19383 610-436-2564

Services Provided for Students with Disabilities

- Special Summer Orientation
- Central Documentation File
- Optional Comprehensive Needs Assessment
- Advocacy with Faculty
- Alternative Test-Taking Arrangements
- Academic Advising
- Priority Registration
- Note-Taking Support
- Content Tutors
- Study Skills Tutoring
- Taped Texts Assistance (Recordings for the Blind, Inc.)
- Adaptive Technology
- Readers for Visually Impaired Students
- Interpreters for Hearing-Impaired Students
- Course Substitutes (e.g., Foreign Language)
- Peer Support
- Association for Disability Awareness

Information Services

Information Services provides computing resources for a wide variety of users, both academic and administrative. Many of the University's administrative functions, such as registration, grade reporting, and billing depend heavily on the campus-wide transaction processing system, which provides centralized access to University data from workstations located throughout the campus.

More importantly, computing is a vital instructional and research tool. Information Services offers students and

faculty a wide range of computing resources, including microcomputers, printers, plotters, graphics workstations, a mainframe, digitizers, and optical scanners. Many of these facilities are available at various campus locations, but the Academic Computing Center on the ground floor of Anderson Hall serves as a focal point of instructional computing activity. A valid WCU ID card is required to use the Academic Computing Center. (For further information, contact the Academic Computing Center at 610-436-3349.) Computing facilities throughout the campus are joined by a high-speed network.

Off-campus, WCU faculty and staff can also access computing resources through the Web. The network provides electronic mail capabilities for all campus workstations, connection to the Internet, and access to the University's main library catalogs.

The WCU network provides high-speed access to software applications (programming languages, spreadsheets, word processors, faculty-developed programs, etc.) and electronic communications capabilities to workstations. Student laboratory facilities are available in the Academic Computing Center, in each of the nine residence halls, and in Sykes Student Union. Students interested in acquiring a working knowledge of several commonly used software packages are encouraged to enroll in the introductory computing course, CSC501, offered by the Department of Computer Science. Major hardware facilities include an IBM ES/9221 mainframe, numerous file servers, and IBM, MacIntosh, Apple, NeXT, DEC, and SUN workstations. Laser printers are also available for student use.

Information Services is located in Anderson Hall, 610-436-2828.

Bookstore

The Student Services, Inc. Bookstore, located in the Sykes Student Union, provides the campus with textbooks, supplies, and other course material for academic programs. In addition, the bookstore offers a wide range of general reading and reference materials, Ramswear, gifts, cards, snacks, and health and beauty products.

The SSI Bookstore accepts all major credit cards and personal checks accompanied by a valid ID.

Store hours:

 Mon.-Thurs.
 8 a.m.-6 p.m.

 Friday
 8 a.m.-4 p.m.

 Saturday
 11 a.m.-3 p.m.

Hours are extended at the beginning of each semester and for special events throughout the year. Students can call 610-436-2242 for information.

Career Development Center

The University provides career planning and placement services for its students and graduates.

The Career Development Center's library provides information about careers, federal and state government positions, application forms, procedures, and job requirements.

The center also maintains listings of job vacancies in business, education, and industry.

The services available to graduate students are credential file development; career counseling; resume referral; an on-campus interview program, which includes interviews arranged by the Career Development Center; and the use of private facilities for on-campus interviews arranged by the applicant. The center's Web site contains links to a variety of job vacancy databases as well as sites to post resumes on the Internet. A variety of resume services are also provided, from samples to assist in developing a resume to free critiques. A fee is charged for the development and service of a credential file.

The Career Development Center is located in 106 Lawrence Center, 610-436-2501. For additional career information visit our home page at http://www.wcupa.edu/services/stu.car/.

Multicultural Affairs

The Office of Multicultural Affairs is dedicated to the development of multicultural sensitivity, understanding, and appreciation of diversity among students. The office develops and implements comprehensive programs aimed at addressing the needs and concerns of the multicultural student. The director of multicultural affairs also serves as a consultant to other University offices regarding multicultural students and aids in projects focused on improving the general campus climate. The office is located in 238 Sykes Student Union, 610-436-3273.

Public Safety

West Chester University is concerned about the safety and welfare of all campus members and is committed to providing a safe and secure environment. Campus security is the responsibility of the University's Department of Public Safety, located in the Peoples Building at the corner of Church Street and University Avenue.

Because no campus is isolated from crime, the University has developed a series of policies and procedures to ensure that every possible precautionary measure is taken to protect members of the University community while they are on campus.

A full explanation of the University's security policies and procedures, as well as additional pertinent information, appears in a publication called "Your Safety Is Our Concern," which is available from the Office of Graduate Studies and Sponsored Research, and from the Department of Public Safety.

Vehicle Registration

All administrators, faculty, staff, eligible students, and visitors desiring to use designated parking lots must register their vehicles with the Department of Public Safety and purchase/obtain parking decals. All graduate students are eligible for a North Campus commuter decal. The annual registration fee will be set by the Council of Trustees upon recommendation of the Parking Committee and approval of the president. For purposes of this document, "annual" is defined as September 1 until August 31 of the following year. Specific registration procedures will be announced yearly.

A valid, nonsuspended operator's license and vehicle registration card(s) must be presented at the time the vehicle is registered.

The decal should be placed in the vehicle immediately. Instructions on placement are on the reverse side of the decal.

Mutilated or defaced decals must be replaced for a fee of \$5 by contacting the Department of Public Safety.

The operation and registration of a vehicle must conform to Commonwealth vehicle law and University regulations. For complete information regarding motor vehicles and registration, refer to the Motor Vehicle Regulations available at Public Safety.

Speech and Hearing Clinic

The Speech and Hearing Clinic, located at 201 Carter Drive, is operated by the Department of Communicative Disorders as a teaching-training facility for its undergraduate and graduate students. The clinic provides diagnostic and therapeutic services for persons with speech, language, and hearing problems. These services are provided free of charge to West Chester University students, faculty, and staff, and to students enrolled at Cheyney University. A fee is charged to others who wish to use the services of the clinic.

Sykes Union Building

The Earl F. Sykes Union first opened in 1975 as the community center for West Chester University. Recently, Sykes Union underwent a complete renovation and expansion to meet the current needs of students. The new facility of approximately 102,000 square feet opened in the summer of 1995.

The union, as a facility and an operation, is designed to encourage all members of the campus community to participate in a wide variety of cultural, social, educational, and recreational programs. The renovated multipurpose building features expanded facilities as well as new and improved services.

Building highlights include a 350-seat theater, a fitness center, a bookstore, and amusement game room, all on the ground floor. The first floor offers a dining area with seating for 350, an outdoor terrace, and a large food servery. Also included on the first floor is a 5,000-square foot multipurpose room designed for dances, concerts, banquets, and lectures, as well as the union administrative offices and Information Center.

The second floor houses the Student Affairs offices of the Vice President, Dean of Students, Assistant Vice President, Residence Life and Housing, Off-Campus and Commuter Services, Multicultural Affairs, New Student Programs, Greek Life and Student Organizations, and Judicial Affairs and Community Development. The Student Services, Inc. Business Office and the departments of Student Programming and Activities, along with student clubs and organizations, are also located on the second floor.

The third floor penthouse features a 20-unit computer lab with quiet study and seminar space. Sykes Union also

features 13 meeting rooms accommodating groups from 5 to 500.

For information concerning Sykes Union please call the Information Center at 610-436-3360/2984.

Women's Center

The Women's Center addresses the special needs and concerns of all women attending the University. Located on the second floor of Lawrence Center, the Women's Center provides a lounge for conversation, as well as an area containing pertinent resource materials for research and reference. A returning women students group is held for women returning to college after an extended period of time away from an academic setting. An updated listing also is maintained throughout each semester for students who wish to provide child care for a fee to individuals in the community. For more information, including opportunities for student volunteers, call 610-436-2122.

Children's Center

The Children's Center for the children of West Chester University students and employees is located in McCarthy Hall. The children participate in educational and developmental programs while their parents are in class or at work. The center is licensed by the Commonwealth of Pennsylvania, and all required registration materials must be completed prior to enrollment in the center. The center offers reduced rates to students and multiple child discounts. For more information, contact the Children's Center at 610-436-2388.

Graduate Student Association

The Graduate Student Association (GSA) is the student government of all persons enrolled in graduate programs. The primary objective of GSA is to promote the overall well-being of graduate students at West Chester University. All graduate students are members of the association by virtue of their graduate status. The GSA office is located in Sykes Student Union.

Black Student Union

The Black Student Union, which was formed in 1971, is dedicated to the creation of a culturally meaningful atmosphere for black students at West Chester University. Black Student Union membership is open to all West Chester students, faculty, and staff—regardless of

race, color, or creed—who have a concern for black social, political, cultural, and economic causes.

A major purpose of the organization is to broaden and enhance the academic and social life for black students at the University. The union's democratically structured constitution provides for an executive board, elected by the membership. The Black Student Union Office is located in Sykes Student Union.

International Education

Established in 1986, the Center for International Programs is responsible for coordinating study abroad programs, international faculty exchanges, visits by foreign scholars, and international programs for the campus and the broader community. In addition, the Center for International Programs actively promotes the development of an international curriculum, facilitates internships, and provides a variety of essential services for international students from around the world.

Special summer study abroad opportunities are coordinated through the Center for International Programs.

International travel and study opportunities for students are rapidly expanding. Anyone interested in taking advantage of study abroad opportunities is encouraged to contact the Center for International Programs, 101 Old Library, for details on current program options, 610-436-3515.

Institute for Women

The Institute for Women was initially designed to serve as the parent organization to represent the interests of women on campus. The institute is an independent body headed by a director and board of directors. Along with the Commission on the Status of Women, Women's Center, and Women's Studies Program, the Institute for Women engages in campus activities for the benefit of women students, faculty, and staff.

The institute sponsors a number of activities to enhance the self-esteem and career success of women at the University: the Woman-in-Residence Program, Grace Cochran Research on Women Award, Visiting Professor Program, Graduate Grant, and Endowed Book Fund. The institute prepares periodic reports on the status of women at the University and also secures Charlotte W. Newcombe Scholarship Grants for mature second-career women. The Institute for Women

is located in 211 Main Hall. For more information call 610-436-2464/2122.

Veterans Affairs

Under the provisions of Title 38, West Chester University is an accredited university for the education of veterans. The University cooperates with the Veterans Administration to see that honorably separated or discharged veterans receive every consideration consistent with either degree or nondegree admission standards.

All veterans, certain dependents of disabled or deceased veterans, and war orphans who wish to obtain educational benefits under the appropriate public laws must register with the Veterans Affairs Office at initial registration. Veterans must renew their registration with this office at the beginning of each subsequent semester and each summer session. The Veterans Administration requires students who are veterans to schedule at least 12 credits per semester in order to receive full benefits under the G.l. Bill.

A representative of the Veterans Administration is in the office of Financial Aid, 138 Elsie O. Bull Center, to counsel and act as a liaison between students and the Veterans Affairs Office in financial and other matters.

The Frederick Douglass Society

Drawing its content from our campus history of social consciousness and its structure from a variety of models in public life, the Frederick Douglass Society of West Chester University is the organization of African-American faculty and staff at West Chester. Named in 1983 for one of the 19th century's most distinguished advocates of human freedom, the organization is oriented toward self-help and improvement by offering a collective voice in the affairs of the University. Its programs also aim to stimulate other groups on campus to enrich our climate. The society annually raises money for scholarship funds, in order to increase the economic options available to the student body generally and to blacks and other ethnic groups as well. It also seeks, by the example of Douglass, to promote an intellectual standard that is not only grounded in excellence but profoundly rooted in the public mission of higher education.

Honor Societies

The University participates in sponsoring an active chapter of Phi Delta Kappa, the international graduate honor society in education. Membership in the West Chester chapter, which was organized in 1956, is by invitation and recognizes scholarship in all fields of study.

Graduate students are eligible to participate in the activities of the undergraduate honor societies at West Chester
University if they are members. These organizations are Alpha Epsilon, Alpha Kappa Delta, Alpha Lambda Delta, Alpha Mu Gamma, Alpha Psi Omega, Eta Sigma Gamma, Gamma Theta Upsilon, Kappa Delta Pi, Pi Gamma Mu, Phi Kappa Delta, Pi Kappa Delta, Pi Kappa Lambda, Pi Mu Epsilon, Phi Alpha Theta, Phi Delta Kappa, Phi Epsilon Kappa, Phi Mu Alpha Sinfonia, Phi Sigma Tau, Psi Chi, Sigma Alpha Iota, and Sigma Tau Delta.

The Student Activities Council

The Student Activities Council (SAC) is one of the major programming organizations at West Chester University. Totally funded and voluntarily run by students, SAC creates and coordinates many of the activities and events on campus. By utilizing students' talents and energies, SAC strives to present a wide variety of programs that meet the needs and interests of the West Chester community. SAC is composed of seven committees and an Executive Board, which presents programs in the areas of concerts, comedy, films, coffeehouse, off-campus trips, and novelty. SAC also plays a major role in the planning and implementation of special events such as Welcome Week, Homecoming, and Spring Weekend. Membership is open to all students at all times. The Student Activities Council is located in 236 Sykes Student Union, 610-436-2336/3037.

Recreation and Leisure Programs

The Office of Recreation and Leisure Programs provides a variety of activities for the University community. Through participation, individuals are afforded an opportunity to improve their health and learn recreational activities that will enhance their use of leisure time.

Intramural Sports affords students, faculty, and staff the opportunity to participate in individual or team competitive activities. The Intramural Sports program promotes health, wellness, and physical fitness, as well as encourages the worthy use of leisure time. Regardless of ability level, every individual can experience successful participation in a variety of individual or team athletic events.

For students who enjoy organized sports other than varsity athletics, the office provides the Sports Club component. This program is provided for students who are either skilled athletically or merely interested in participating in a club sport for sheer enjoyment of the activity. Becoming a member of a club provides opportunities for instruction, socialization, competition, and fun. Currently, West Chester University provides ten Sports Clubs: equestrian, fencing, ice hockey, aikido karate, shotokan karate, men's rugby, women's rugby, skiing, men's volleyball, and water polo.

Outdoor recreational opportunities are conducted through the Outdoor Adventure Program. The Outdoor Adventure Program provides a variety of different trips and one-day activities including canoeing, caving, rock climbing, ski trips, backpacking, and camping. Outdoor recreation equipment such as backpacking items, tents, sleeping bags, camping equipment, snow boards, crosscountry skis, and mountain bikes are available to rent.

For students who do not wish to participate in a formal recreational program, Open Recreation provides days, times, and facilities in which students may participate in informal recreational activity utilizing swimming pools, indoor/outdoor tracks, outdoor tennis courts, basketball gymnasiums, and sand volleyball courts. The new Fitness Center in Sykes Union is designed to give students a professional setting for exercise and weight training. The Sykes Fitness Center is equipped with cardiovascular and pin-selectorized equipment, and Olympic free weights. The center also includes an aerobics studio where sessions are held. A valid student ID is necessary for admission to the center and an orientation session is also required for all participants.

The Aerobics program is one of our most popular activities, with over 800 students, faculty, and staff participating in 28 dif-

ferent aerobic sessions. All participants must register for this program.

For more information call the Office of Recreation and Leisure Programs, 610-436-2131, or stop by Room 133, Ehinger Gymnasium.

Counseling and Psychological Services Department

The Counseling Center, a part of the Counseling and Psychological Services Department, is located on the second floor of Lawrence Center, 610-436-2301. The Counseling Center provides counseling services to all undergraduate and graduate students at West Chester University. The CPS faculty includes licensed psychologists who are experienced in working with college students. Students may discuss their concerns, feelings, hopes, and interests freely and in strict confidence.

COUNSELING SERVICES

Since the Counseling Center provides services for a wide range of concerns, each student's experience will be tailored to his or her request. Students may want to clarify their vocational or educational choices, improve their interpersonal skills, or resolve personal conflicts. Their choice of approach could include one or more of the following Counseling Center services:

- 1. Individual vocational counseling consists of a one-to-one counseling experience that focuses on the student's choice of major and vocation. Vocational choice is most solid when it is the outgrowth of understanding one's self. Such understanding requires time and thought, and involves the student's identifying his or her own style, values, interests, and abilities. Psychological testing, as well as discussion, often enhances self-understanding.
- 2. **Individual counseling for personal problem solving** consists of a one-to-one counseling experience where the focus is on resolving personal conflicts

- and conflicts with others, and on improving the student's expertise at making personally meaningful choices. It also may help some people avoid making decisions that may restrict their personal growth and undermine their well-being.
- 3. Group counseling consists of a small group of peers with one or more counselors. Such groups usually meet once each week to provide group members with constructive learning about themselves. Groups often have a specific focus. Past groups have focused on: Elimination of self-defeating behavior Assertiveness training Anxiety management Test anxiety reduction Eating disorders

 Career exploration

 Procrastination—how to avoid it
- 4. Testing Information from psychological tests can be useful in increasing self understanding and can often assist in the process of vocational and educational decision making. Faculty members of the Counseling and Psychological Services Department are trained in the administration and interpretation of psychological tests. The student and his or her counselor can decide whether testing might be helpful. Arrangements also can be made at the Counseling Center for taking the Graduate Record Exam, Graduate Management Admissions Test, and the Miller Analogies Test—three graduate school admissions tests.
- 5. Consultation Services—Faculty members in the Counseling Center also are available to consult with staff and faculty members of the college community. They can assist with crises, program planning, group and interpersonal communications, and referral to other agencies.

University Policy for Storm Closings

When storm conditions affect the operation of the University, announcements are made over local radio and TV stations via a system of code numbers keyed to affected schools. Prefixes indicate whether the school will be closed or open later than usual. West Chester's numbers and applicable prefixes are:

- 853 University number; this number with no prefix indicates classes will be cancelled for the day.
- 2853 Evening classes will be cancelled.

On Tuesday or Thursday, either a two-hour delay or class cancellation will be called. Two-hour delays on these days will mean that 8 a.m. classes are cancelled, and the class normally starting at 9:30 a.m. will start at 10 a.m. and continue to 11 a.m.

On Monday, Wednesday, or Friday, a one-hour delay means that the 8 a.m. class is cancelled. A two-hour delay means that both the 8 a.m. and 9 a.m. classes are cancelled.

Structure of the University

COLLEGE OF ARTS AND SCIENCES

David H. Buchanan, Dean

Anthropology and

Sociology
Art
Biology
Chemistry

Biology
Chemistry
Communication Studies
Computer Science
English

Foreign Languages

Geology and Astronomy

History
Mathematics
Philosophy
Physics
Psychology
Theatre Arts

SCHOOL OF BUSINESS AND PUBLIC AFFAIRS

Christopher M. Fiorentino, Dean

Accounting
Criminal Justice
Economics and Finance
Geography and Planning

Management Marketing Political Science Social Work

SCHOOL OF EDUCATION

Tony W. Johnson, Dean

Counseling and Educational Psychology

Early Childhood and Special Education

Elementary Education

Literacy

Professional and Secondary Education

SCHOOL OF HEALTH SCIENCES

Donald E. Barr, Dean

Communicative Disorders Health

Kinesiology

Nursing

Sports Medicine

SCHOOL OF MUSIC

Timothy V. Blair, Interim Dean

Instrumental Music Keyboard Music Music Education

Music History and Literature

Music Theory and Composition

Vocal and Choral Music

Programs of Study and Course Offerings

Guide to the Catalog

The arrangement of course offerings is alphabetical by either department or program of study.

Students may obtain a typical sequence of courses for any program from the office specified in this catalog.

Please note that all courses, course descriptions, course sequences, and course substitutions are subject to change.

Current information is available from the appropriate department chair, graduate coordinator, or program adviser.

For a guide to course prefixes, see page 92.

Accounting—See Business

Administration

211 Carter Drive

West Chester University

West Chester, Pennsylvania 19383

610-436-2438

FAX: 610-436-3041

E-mail: msa@wcupa.edu

Dr. James S. Milne, M.S.A. Program Director

CONCENTRATION ADVISERS

Dr. Gopal Sankaran, Health Services Administration

Dr. Arlene C. Rengert, Leadership for Women

Dr. Douglas McConatha, Long-Term Care

Dr. James S. Milne, *Individualized; Human Resources Management*

Mr. A. Wayne Burton, Public Administration

Dr. Joan Welch, Regional Planning

Mr. Richard Yoder, Sport and Athletic Administration

Dr. Jack Orr, Training and Development

Program of Study

The master of science in administration (M.S.A.) is a multidisciplinary degree with areas of concentration in health services administration, leadership for women, long-term care, individualized, human resource management, public administration, regional planning, sport and athletic administration, and training and development.

The degree is designed for persons with work-related experience desiring to enhance their administrative skills at the supervisory and mid-management levels. It is recommended that applicants have a minimum of three years', full-time work experience prior to matriculation. Those persons who lack the requisite work experience and/or plan to change careers need to incorporate relevant internships and other job experiences into their programs, which may require program enrollment beyond the minimum requirements stipulated in this catalog.

Undergraduate, prerequisite requirements might be necessary for applicants without adequate preparation in the area of intended concentration.

MASTER OF SCIENCE IN ADMINISTRATION

(36-42 semester hours)

The program consists of an 18-hour administrative core of courses plus 18-24 semester hours of courses in a selected concentration area as follows:

- 1. Administrative core (required): ADM 501, 502, 503, 504, 505, and either 506 or 507
- 2. Area of concentration*
 - a. Health services administration (See page 61.)
 - b. Long-term care (See page 31.)
 - c. Leadership for women (See page 68.)
 - d. Public administration (See page 81.)
 - e. Human resource management (See pages 29-30.)
 - f. Sport and athletic administration (See page 66.)
 - g. Regional planning (See page 57.)
 - h. Training and development (See page 29.)
 - i. Individualized (See pages 30-31.)

Admisson Requirements

Applicants must submit official undergraduate transcripts denoting: receipt of bachelor's degree and majors from all undergraduate institutions attended; scores from the Miller Analogies Test, Graduate Record Examination or Graduate Management Admissions Test**; an essay with a clear focus on career plans; and two letters of reference from professional supervisors that address the applicant's administrative potential. All application materials are to be submitted to the Office of Graduate Studies and labeled: "Attention, M.S.A. Application of (student's name)." After these materials have been received by the Office of Graduate Studies, the M.S.A. director will schedule an admissions interview with the applicant.

Deadline for Applications

Normally, the application process must be completed and admission granted prior to course enrollment for the fall or spring semester. The deadline for applying for the fall semester is June 15, and the deadline for the spring semester is October 15. With the approval of the M.S.A. director, late applicants may register for one semester of course work, pending completion of the admission requirements. The M.S.A. program does not permit students to remain in nondegree status. All applications must be submitted on the approved WCU graduate application forms available from the Office of Graduate Studies.

Comprehensive Examination

No comprehensive examination is required for the administrative core. However, in lieu of the examination, each of the six administrative core courses must be completed with a grade of at least "B."

Selected concentrations in the M.S. in administration program do require comprehensive examinations. Students are obligated to comply with concentration comprehensive examination policies in effect on the date of their admission to the program. Students must clarify the requirements for their programs with the appropriate concentration adviser.

Certificate in Administration

Dr. Milne, M.S.A. Director

The certificate in administration is designed for persons who desire to enhance their management and supervisory skills. To earn the certificate, students must complete the 18-hour administrative core required for the master of science in administration with a minimum grade of "B" for each course. Those interested in the certificate option must follow and meet the same admissions criteria as full-degree students.

Degree students also may receive the certificate after completing the administrative core requirements with a minimum grade of "B" for each course.

Note: Receipt of the certificate in administration is independent of the graduation process. Application forms must be obtained from the M.S.A. Office and submitted to the M.S.A. director for processing.

CURRICULUM

1. Administrative Core

18 semester hours

A. Must take all 15 credits:

ADM 501 Administrative Theory and Environment (3)

ADM 502 Computers for Managers (3)

ADM 503 Accounting and Budgeting (3)

ADM 504 Communication for Administrators (3)

ADM 505 Organizing Human Resources (3)

B. Must select three credits:

ADM 506 Budgetary Process (3)

ADM 507 Liability for Managers (3)

^{*}Refer to departmental listings for concentration course descriptions.

^{**}Applicants for health services administration must submit either GRE or GMAT scores. Diagnostic test scores are not required from those with earned master's degrees.

COURSE DESCRIPTIONS ADMINISTRATION

Symbol: ADM

501 Administrative Theory and Environment (3) Organizational theory and practice in public and private institutions. Legal framework for administration, application of public policy, sociolegal issues, and values of society considered. 502 Computers for Managers (3) Quantitative applications in administration. Computer as a

management tool. Computer basics and management information systems.

503 Accounting/Budgeting (3) A study of accounting principles and procedures for both profit and nonprofit organizations. Emphasis is on the concepts and effects of policies and procedures with which the administrator will normally come into contact.

504 Communication for Administrators (3) Development of communication skills for the effective writing of letters, memos, reports, and proposals. Structuring and conducting meetings and presentations.

505 Organizing Human Resources (3) Administrative models and concepts of human behavior in formal organizations and decision processes. Personnel administration. Effective selection, use, and development of human resources for the total organization. Affirmative action and equal opportunity.

506 Budgetary Process (3) Budget forecasting and implementation. Analysis, planning, and control of sources and allocation of funds. Measurement and control mechanisms such as program planning budgeting system (PPBS), zero-base budgeting

(ZBB), and management by objective (MBO) emphasized.

507 Liability for Managers (3) Study of the law of civil and criminal liability of managers in the profit and not-for-profit sections. Review of the law of defense and liability protection for individual and organization. Facility safety and health liability, personnel law emphasized.

520 Topics in Administration (3) Intensive study of selected topics in administration or human resource management current to the interest and needs of professionals. Topics will vary.

525 Grant Writing (3) Art of grant writing via proposal development processes. Targeting proposals to public and private agencies.

551 Foundations of HR Management (3) This course addresses the fundamental management practices expected to be performed by HR professionals. It will examine various HR roles, organizational structures, leadership, employee involvement strategies, and ethics. Relevant HR research designs and methodologies will also be emphasized. PREREQ: ADM 501 and 505.

552 Staffing and Development (3) This course examines all legal and regulatory factors affecting staff selections and development. Included are all applicable federal laws and practices as well as employee orientation, training, and development. PREREQ: ADM 505.

553 Employee Relations (3) Course emphasis is on employee relationships with management, particularly in a nonunion environment. It addresses issues such as policy formulation, compliant systems, employee rights, methodology of performance appraisals, employee morale

and motivation and factors affecting employee health, safety, and security. PREREQ: ADM

554 Labor Relations (3) This course analyzes labor-management relationships, particularly with respect to federal laws and regulations, administration of labor contracts, mediation, and arbitration processes. All of the legal aspects of collective bargaining as well as related practices, and strategies of negotiation, unfair labor practices, and the management of organization - union relations are incorporated in this course. PREREQ: ADM 505 and 507.

555 Compensation Analysis and Benefits Planning (3) This course examines the legal and regulatory factors affecting compensation and benefit administration. It reviews compensation philosophies and economic factors affecting pay plans, as well as the type and characteristics of specific compensation and benefit programs. PRE-REQ: ADM 505 and ADM 507.

556 HR Pro-Seminar (3) This is the "capstone" course for the M.S.A.-HR program. It integrates and has students make "real world" applications of the "common body of knowledge" required for professional certification using the "case study method" and team management methodologies. PREREQ: All M.S.A.-HR required courses, except that a student in his/her last semester may take a maximum of two required courses concurrently with ADM 556.

600 Research Report (3)

612 Internship (3-6) Intensive field placement in organization under faculty guidance and supervision. Precontracted learning objectives.

Training and Development

Dr. Orr, Program Concentration Adviser

Training and development is a concentration within the master of science in administration program. The thrust of this concentration is to prepare training and development supervisors who, in turn, will develop and coordinate in-house programs/staff development services for line managers.

CURRICULUM

1. Administrative Core

18 semester hours

ADM 501 Administrative Theory and Environment (3)

ADM 502 Computers for Managers (3)

ADM 503 Accounting and Budgeting for Administrators (3)

ADM 504 Communications for Administrators (3)

ADM 505 Organizing Human Resources (3)

ADM 507 Liability for Managers (3)

2. Training and Development Core

18 semester hours

A. Required courses

ADM 552 Staffing and Development (3)

COM 570 Conceptual Foundations for Training and Development (3)

COM 571 Practicum in Communication, Training, and Development (3)

PSY 567 Psychology and Training (3)

B. Cognate courses (six semester hours, three from each category)

1. Industrial Organization Psychology Elective selected under advisement from PSY 560, Advanced Industrial Psychology; PSY 562, Organization Psychology; PSY 563, Performance Analysis; or PSY 564, Human Factors.

2. Communication Studies Selected with approval of adviser from among graduate courses in Communication Studies.

C. Internship (3-6 semester hours):

ADM 612 Internship

Required for those students who do not have appropriate training and development experience)

3. NOTE: Combined with an administration core of 18 required credits, the M.S.A./training and development concentration would require a minimum of 36 credit hours, exclusive of internship.

Human Resource Management

Dr. Milne, Program Concentration Adviser and M.S.A. Director The concentration in human resource management is designed for

persons who want to enhance their knowledge of organizational personnel theories and techniques. It is appropriate both for persons interested in human resource management as a career and for operations managers who want to enhance their supervisory skills in employee assessment, placement, evaluation, and development.

CURRICULUM

1. Administrative Core

18 semester hours

A. Must take all 18 credits:

ADM 501 Administrative Theory and Environment (3)

ADM 502 Computers for Managers (3)

ADM 503 Accounting and Budgeting (3)

ADM 504 Communications for Administrators (3)

ADM 505 Organizing Human Resources (3)

ADM 507 Liability for Managers (3)

2. Human Resource Management Core 18 semester hours

ADM 551 Foundations of Management (3)

ADM 552 Staffing and Development (3)

ADM 553 Employee Relations (3)

ADM 554 Labor Relations (3)

ADM 555 Compensation Analysis and Benefits Planning (3)

ADM 556 HR Pro-Seminar (3)

3. Internship

3–6 semester hours

ADM 612 (3-6)

Required only for students without appropriate HR experience as determined by faculty adviser.

CERTIFICATE IN HUMAN RESOURCE MANAGEMENT

The certificate in human resource management is designed for post-master's graduate students who want to enhance skills and knowledge appropriate for human resource professionals. Students

may earn the certificate by completing each of the following human resource management core courses with a minimum grade of "B" in each: ADM 551, ADM 552, ADM 553, ADM 554, ADM 555, and ADM 556.

Degree students in the M.S.A. human resource concentration are eligible for the certificate after completing the stated requirements. The certificate may be completed by persons seeking post-master's certification with a human resource specialization. Such applicants must apply under the "Professional Growth" admissions category. Diagnostic test scores are not required for those with a previously earned master's degree.

Persons with a bachelor's degree may also pursue the certificate independent of the full M.S.A. degree. Such applicants must apply under "Professional Growth" and must meet all the admissions requirements required for the M.S.A. degree.

Note: Receipt of the certificate is independent of the graduation process. After successfully completing the program of study, the student must apply on the appropriate forms available from the Graduate Office.

Individualized Concentration

Dr. Milne, Program Concentration Adviser and M.S.A. Director

This concentration is designed for persons who have achieved a high level of career success in their chosen fields. Those admitted will have evidenced significant career mobility and will be enhancing their knowledge base by enrolling in an individually developed set of courses after it has been proposed and approved by the concentration adviser and a contractual agreement has been developed.

CURRICULUM

1. Administration Core

18 semester hours

A. Must take all 15 credits:

ADM 501 Administrative Theory and Environment (3)

ADM 502 Computers for Managers (3)

ADM 503 Accounting/Budgeting (3)

ADM 504 Communication for Administrators (3)

ADM 505 Organizing Human Resources (3)

B. Must select three credits:

ADM 506 Budgetary Process (3)

ADM 507 Liability for Managers (3)

2. Individualized Core

18 semester hours

A. Required (3 credits)

ADM 600 Research Report (3)

To encompass career goal theme

B. Electives (15 credits)

Subject to advisement/acceptance of an approved personal program proposal. Courses to be approved from among 500-600 level WCU graduate courses designed to fulfill the personal program proposal as approved.

C. Internship (3-6 credits)

Required for students without sufficient, relevant administrative experience. Internships are in addition to the 15 credit hours of electives for such students. Internships are not required for students with sufficient management experience, but these students may enroll for relevant internships as part of the 15-hour elective credit requirement, provided the work requirements of such are different from enhancements of the person's normal work assignments (i.e., students cannot earn internship credit by performing their normal work responsibilities).

The M.S.A./individualized internship arrangement/ requirements are to be confirmed in writing either by the concentration adviser or the M.S.A. director.

The following M.S.A. programs are coordinated by the department listed:

Health Services Administration

Dr. Sankaran, Program Concentration Adviser

Dr. Milne, M.S.A. Director

The health services administration concentration, offered by the Department of Health, is designed to meet the needs of persons interested in entering the field of health administration, and of persons presently in health administration who are interested in upgrading their skills. See the listing under the Department of Health section for further information and course descriptions.

Leadership for Women

Dr. Rengert, Program Concentration Adviser

Dr. Milne, M.S.A. Director

The women in leadership concentration, offered by the Women's Studies program, is designed to enable the student to develop a mode of leadership appropriate to workplaces in which access to organizational power is inequitable for sexes of equal training and talent. See the listing under the Women's Studies section for further information and course descriptions.

Long-Term Care

Dr. McConatha, Program Concentration Adviser

Dr. Milne, M.S.A. Director

The long-term care concentration in the master of science in administration program meets the needs of those persons interested in entering the field of long-term care, and of those persons presently in long-term care interested in upgrading their careers. See the listing under Anthropology and Sociology for further information and course descriptions.

Public Administration

Mr. Burton, Program Concentration Adviser

Dr. Milne, M.S.A. Director

The concentration in public administration, offered by the Department of Political Science, focuses on public management at the local and regional levels. It is appropriate for public managers and officials from local, county, and regional governments who desire to enhance their general management skills as well as gain insight into public issues of particular concern to local officials. See the listing under the Department of Political Science for further information and course descriptions.

Regional Planning

Dr. Welch, Program Concentration Adviser

Dr. Milne, M.S.A. Director

The regional planning concentration, offered by the Department of Geography and Planning, focuses on land use development and management at the local, county, and regional levels. It is an appropriate concentration for those who desire to enhance their knowledge of comprehensive planning, zoning and mapping, and demographic and environmental impacts. See the listing under the Department of Geography and Planning for additional information and course descriptions.

Sport and Athletic Administration

Mr. Yoder, Program Concentration Adviser

Dr. Milne, M.S.A. Director

The sport and athletic administration degree, offered by the Department of Kinesiology (formerly Physical Education), focuses on the development of athletic administrators who aspire to leadership roles in athletics, and who must adapt to the everchanging responsibilities of interscholastic and intercollegiate athletics. See the listing under the Department of Kinesiology for further information and course descriptions.

Anthropology and Sociology

101C Old Library Building West Chester University West Chester, PA 19383 610-436-2556

Dr. Morales, Chairperson

PROFESSORS

Marshall J. Becker, Ph.D., University of Pennsylvania Harvey C. Greisman, Ph.D., Syracuse University Nelson W. Keith, Ph.D., Rutgers—The State University Douglas McConatha, Ph.D., University of Utah Edmundo Morales, Ph.D., City University of New York Leigh Shaffer, Ph.D., Pennsylvania State University Paul A. Stoller, Ph.D., University of Texas at Austin

ASSOCIATE PROFESSORS

Helen A. Berger, Ph.D., New York University Bonita Freeman-Whitthoft, Ph.D., University of Pennsylvania Patrick W. Luck, Ph.D., University of Connecticut Martin Murphy, A.M., University of Michigan

ASSISTANT PROFESSORS

Jon A. Cowen, A.M., University of Pennsylvania Anthony Zumpetta, Ed.D., Indiana University of Pennsylvania

The Department of Anthropology and Sociology offers, on a limited basis, graduate courses in anthropology and sociology to graduate students from other areas as well as to advanced undergraduate majors and nonmajors.

CONCENTRATION IN LONG-TERM CARE MASTER OF SCIENCE IN ADMINISTRATION

(39 semester hours)

The master of science in administration with a concentration in longterm care is designed to meet the needs of individuals interested in advancing their careers in the growing field of services, programs, and facilities focusing on the needs of the elderly. The long-term care program is a multidisciplinary program with major course components in the College of Arts and Sciences, the School of Business and Public Affairs, and the School of Health Sciences.

Applicants for admission to the M.S.A. program must meet the basic requirements for the University as explained in this catalog. Applicants must submit scores from one of the following graduate entrance exams: Miller Analogies Test (MAT), Graduate Record Exam (GRE), or Graduate Management Admission Test (GMAT).

Degree Requirements

Administration Core Requirements 18 semester hours ADM 501 Administrative Theory and Environment (3) ADM 502 Computers for Managers (3)

ADM 503 Accounting for Administrators (3)

ADM 504 Communications for Administrators (3)

ADM 505 Organizing Human Resources (3)

ADM 506 Budgeting and Fiscal Management (3)

ADM 507 Liability for Managers (3)

II. **Health Studies Requirements**

HEA 520 Scientific Bases for Health 1 (3)

HEA 531 Community Health (3)

Long-Term Care Requirements

HEA 630 Health Care Administration (3)

HEA 631 Health Services Law (3) SOC 519 Geriatrics (3)

SOC 522 Gerontology (3)

HEA/SOC Field Placement (3) (taken following course work)

GERONTOLOGY CERTIFICATE

(18 semester hours)

The certificate in gerontology is an interdisciplinary program designed to serve individuals who are now employed or anticipate working in the field of aging. Students will broaden their formal and practical knowledge of the elderly while gaining research and service experience in gerontology. The certificate program provides students with nationally recognized documentation of their academic training in the field.

Degree Requirements

I. Certificate Core Courses

9 semester hours

6 semester hours

15 semester hours

SOC 522 Gerontology (3)

SOC 518 Applied Gerontology (3)

SOC 519 Geriatrics (3) or

SOC 590 Independent Study (Sociology of Aging) (3)

II. Electives

9 semester hours

In addition to the certificate core, three elective courses chosen under advisement with the director of the University Gerontology Center are required. Students should check with their current academic adviser to determine the availablity of currently approved electives. Electives may be selected from the following departments:

Administration Kinesiology Communicative Disorders Psychology Social Work Counselor Education Geography Sociology Health

For further information contact Dr. Douglas McConatha, director of the University Gerontology Center, Department of Anthropology and Sociology, 610-436-3125.

COURSE DESCRIPTIONS ANTHROPOLOGY

Symbol: ANT

512 Ethnographic Studies (3) Intensive survey of a single culture area. Area for study announced in advance.

599 Independent Studies in Anthropology (1-3) PREREQ: Approval of instructor and department chairperson.

SOCIOLOGY Symbol: SOC

515 Mental Illness in Social Context (3) A soci-

ological perspective on the cause and treatment of mental disorders, including a critical analysis of public policy on mental health services.

518 Applied Gerontology (3) Design and development of programs to provide services for the aging population in order to assist them to live as independent members of their communities.

519 Geriatrics (3) A detailed discussion of physical and mental disabilities and diseases that often accompany the aging process. Methods of treatment for these disorders will also be presented. Opportunities for short-term placement in long-term care facilities may be available.

522 Gerontology (3) Information on past and present trends concerning services to the elderly. Discussions on contemporary gerontological problems and factors affecting the treatment of the elderly. This broad-based, introductory course is for those interested in the aging population.

532 History of Sociological Theory (3) Development of sociological thought.

590 Independent Studies in Sociology (1-3) PREREQ: Approval of instructor and department chairperson.

Art

Mitchell Hall West Chester University West Chester, PA 19383 610-436-2755

Mr. Baker, Chairperson

PROFESSORS

Richard E. Blake, B.F.A., *Tyler School of Art of Temple University* Gus V. Sermas, M.F.A., *University of Wisconsin*

ASSOCIATE PROFESSORS

John Baker, M.F.A., University of Delaware

Victor Lasuchin, M.F.A., *University of Pennsylvania* Donna Usher, M.F.A., *University of Delaware* Linwood J. White, M.F.A., *University of Pennsylvania*

ASSISTANT PROFESSORS

Virginia da Costa, Ph.D., *University of California, Santa Barabara* Belle C. Hollon, M.F.A., *University of Wisconsin* Nancy J. Rumfield, Ph.D., *Nova Southeastern University* Margaret Schiff, M.F.A., *Syracuse University*

The Department of Art offers, on a limited basis, graduate courses in art to graduate students from other areas.

graphic identity.

COURSE DESCRIPTIONS ART

Symbol: ART unless otherwise noted.

ARH 500 Art Seminar (3) Special topics to be announced for studio and art history. Offered periodically as appropriate. PREREQ: Permission of instructor.

516-517 Painting 1-11 (3) (3) Extensive experimentation in studio problems and directions. The strategies of technique and a personal style are explored. Each section of this course varies with the instructor.

520 Painting: Independent Projects (3) Individualized instruction at an advanced level. Development of professional, personal, and imaginative statements leading to formation of the student's pictorial identity.

521 Sculpture 1 (3) Introduction to sculpture via the fundamentals of 3-D design. Use of basic tools, development of skills, techniques, and processes in creating sculpture. Projects in plaster, clay, stone, and wood.

525 Multimedia Workshop in Sculpture III (3)

Fabrication methods and techniques, using wood, plastic, and various metals.

531 Ceramics I (3) Ceramic techniques and aesthetics of clay, leading toward development of creative expression. Exercises in hand-built and wheel-thrown forms. Formulation of clay bodies, glaze bodies, and calculations; loading and kiln firing techniques. Also, basic exercises for elementary and secondary teaching levels.

532 Ceramics 11 (3) Further development of expression for those who have mastered basic ceramic processes. Research in clay bodies, glaze chemistry, firing techniques, and kiln construction. Creative problems.

533 Ceramics: Studio Problems (3) Individual projects involving the total or specialized areas of the ceramic process. Practical experience through helping to maintain the ceramic complex.

534 Ceramics: Independent Projects (3)
541 Printmaking: Relief, Independent
Projects (3) Advanced study with individualized instruction. Collagraph, lino-cut, and woodcut techniques. Combining various printing processes with relief printmaking.

546 Drawing: Independent Projects (3) Advanced study with individualized instruction. Emphasis on professional, personal, and imaginative statements leading to the student's icono-

551 Art Education in the Elementary School (3) Current trends in art education for the elementary school.

552 Basic Photography (3) A course in the basics of photography. Includes techniques for camera handling, film and print processing, and photographic images manipulation. Students must supply their own 35mm adjustable camera as well as printing and processing materials.

553 Intermediate Photography (3) An intermediate course for those who have had a basic photography course or previous photographic experience. Students must supply 35mm adjustable camera and printing and processing materials. PRE-REQ: ART 552.

554 Advanced Still Photography (3) Lecture and laboratory experiences in large format, and electronic visual production. PREREQ: ART 552 and 553. 590 Independent Studies in Art (I-3)

Astronomy—See Geology and Astronomy

Biology

322 Boucher Hall West Chester University West Chester, PA 19383 610-436-2751

Dr. Potvin, Chairperson

Dr. Slusher, Coordinator of Graduate Studies

PROFESSORS

John T. Beneski, Jr., Ph.D., Washington State University G. Winfield Fairchild, Ph.D., University of Michigan Frank Eliot Fish, Ph.D., Michigan State University Martha A. Potvin, Ph.D., University of Nebraska Ronald F. Romig, Ph.D., University of Delaware Jack Waber, Ph.D., University of Hawaii

Richard I. Woodruff, Ph.D., University of Pennsylvania

ASSOCIATE PROFESSORS

Sharon E. Began, Ph.D., Southern Illinois University at Carbondale

Steven L. Broitman, Ph.D., Princeton University

Maureen T. Knabb, Ph.D., University of Virginia

Gustave Mbuy, Ph.D., University of Cincinnati

Leslie B. Slusher, Ph.D., Pennsylvania State University

Harry M. Tiebout III, Ph.D., University of Florida

Elise Triano, Ph.D., Thomas Jefferson University

ASSISTANT PROFESSORS

Nancy N. Artus, Ph.D., Michigan State University Giovanni Casotti, Ph.D., Murdoch University Judith J. Greenamyer, D.V.M., Ohio State University Russell H. Vreeland, Ph.D., University of Nebraska

Admission Requirements

Applicants must meet the general requirements for admission to degree study at West Chester University and must submit scores for the general and advanced biology sections of the Graduate Record Examination. Applicants must include a one-page written statement that outlines their reasons for pursuing graduate study in biology and the specific area of biology in which they are interested. Applicants must fill out a supplemental application for graduate study in biology, available from the biology coordinator or the Graduate Office, in which they identify their preferred adviser and indicate whether they intend to pursue the thesis or nonthesis option, and whether they intend to be a full-time or part-time student.

Minimum academic prerequisites for admission include two semesters of general chemistry, two semesters of organic chemistry, one semester of physics, one semester of calculus, and 17 semester credits of course work in the biological sciences. Because of space and personnel limitations, admission of academically qualified applicants is contingent upon the availability of laboratory space, the adviser whom they identify, and the appropriateness of the student's background to the chosen area of concentration.

Students who are lacking some of the prerequisite courses may be granted provisional matriculation status and given permission to pursue the M.S. degree while correcting their deficiencies.

The M.S. in biology may be completed under either the thesis or nonthesis option. Students must indicate the option they intend to pursue at the time of application to the program. Switching between the two options is possible but may require the student to organize a new advisory committee, take additional courses, and spend additional time completing the program.

DEADLINE DATES FOR APPLICATIONS: February 15 for all students wishing to be considered for graduate assistantships for the following September; April 15 for the fall semester; October 15 for the spring semester.

MASTER OF SCIENCE IN BIOLOGY

Degree Requirements

Thesis Option (30 semester hours)

Required Core

BIO 511 (3)

21 semester hours

Two research techniques courses from: BIO 513, 514, 515 (6)

Two different course topics areas from: BIO 535, 536, 537 (6)

BIO 591 (3)

BIO 610 (3)

Electives

9 semester hours

See general information for details and restrictions

To successfully complete BIO 591, the student must present the thesis proposal to his/her thesis advisory committee and demonstrate a fundamental understanding of the principles of biology underlying the proposed research. At that time, the committee also will examine the student on his/her understanding of other related areas of biology. Students who demonstrate a poor understanding of their chosen field must correct their deficiencies.

To successfully complete BIO 610, the student must present the thesis research in an open seminar and also pass a final thesis defense before the thesis committee. The degree will not be awarded until the thesis has been accepted by the student's committee.

Nonthesis Option (36 semester hours)

Required Core

24 semester hours

BIO 511 (3)

Three research techniques courses: BIO 513, 514, 515 (9) Three different course topics areas: BIO 535, 536, 537 (9)

BIO 609 (3)

Electives

12 semester hours

See general information for details and restrictions To successfully complete BIO 609, the student must present the results of the project in an open seminar. In addition, during or immediately after the final semester of course work in the nonthesis program, the student must pass a written comprehensive examination prepared by the student's advisory committee. Students who fail this examination will not receive their degree.

General Information and Restrictions on Electives

With the prior consent of the advising committee, a thesis student may take a maximum of six credits at the graduate level in allied disciplines, and a maximum of six biology credits at the 400 level. A nonthesis student may take a maximum of nine credits at the graduate level in allied disciplines, and a maximum of six biology credits at the 400 level. All 400-level courses must be among those listed as acceptable for graduate students in the Graduate Catalog. With the consent of the advising committee, any student may also transfer in six credits of graduate level work from another university.

BIO 592, 593, and 609 may not be counted towards the 30 credits required for graduation in the thesis option.

BIO 591, 592, 593, and 610 may not be counted towards the 36 credits required for graduation in the nonthesis option.

Introductory genetics.

COURSE DESCRIPTIONS BIOLOGY

Courses are divided into three groupings: graduate only, combined graduate and undergraduate, and acceptable undergraduate courses.

Numbers in parentheses at the end of course descriptions indicate the number of hours of lecture and lab, respectively. Prerequisite for graduate course attendance is admission to the degree program or permission of the graduate coordinator and the dean of graduate studies. Prerequisites for specific courses are given.

The following are the graduate-only courses in the biology program:

511 Experimental Design and Analysis (3) An introduction to the design and analysis of biological research. An independently conducted research project is a required part of the course. Lab BIL 511 (2, 3) PREREQ: Basic statistics.

513 Research Techniques in the Biological Sciences 1 (3) An introduction to the theory and application of histological techniques, and light and electron microscopy. (0, 3)

514 Research Techniques in the Biological Sciences 11 (3) Introduces students to the theory and practical application of selected techniques in biological research, such as radioisotope labeling techniques, spectrophotometry, and various chromatographic procedures. (0, 3)

515 Research Techniques in the Biological Sciences III: Computer Applications in Biological Research (3) Use of computers in bio-

logical research and data analysis. Topics include image analysis, modeling, and database access for proposal or presentation preparation. (0, 3) 530 Human Genetics (3) Basic genetic theories as they apply to the study of humans; chemical basis of inheritance; biochemical variation; cytogenetics; somatic cell developmental, behavioral, and population genetics of man; immunogenetics; quantitative inheritance, treatment, and prevention of genetic disorders; relationships between viruses,

B1L 534 Introduction to Recombinant DNA Methodology (3) Laboratory techniques for gene manipulation; growing and utilizing plasmid and

aspects of human genetics. (3, 0) PREREQ:

genes, and cancer; social, legal, and psychological

virus vectors; use of restriction endonucleases; analysis and recovery of DNA by electrophoresis; gene cloning in *Escherichia coli*; and site-specific mutagenesis. (0, 6) PREREQ: Microbiology, biochemistry.

- 535 Course Topics in Biology I (3) Lecture/seminar course on the latest topics in ecology, evolution, or organismal biology. Specific content varies depending on faculty involved. Offered in rotation with BIO 536 and 537. May be repeated for credit if a different topic is presented. (3, 0)
- 536 Course Topics in Biology II (3) Lecture/seminar course on the latest topics in microbiology, immunology, or molecular genetics. Specific content varies depending on faculty involved. Offered in rotation with BIO 535 and 537. May be repeated for credit if a different topic is presented. (3, 0)
- 537 Course Topics in Biology III (3) Lecture/seminar course on the latest topics in cell biology, physiology, or development. Specific content varies depending on faculty involved. Offered in rotation with BIO 535 and 536. May be repeated for credit if a different topic is presented. (3, 0)
- 591 Directed Research I (3) To be taken when the student begins his her thesis research. Includes a comprehensive literature search and development of specialized techniques. This course should culminate in the acceptance of the thesis proposal by an appropriate committee of faculty and is required for degree candidacy.
- **592** Directed Research II (3) A continuation of the research proposed and initiated in BIO 591. To be taken for credit only with the approval of the graduate coordinator. (Does not count towards 30 credits required for graduation.)
- **593 Directed Research 111 (3)** A continuation of the research proposed and initiated in BIO 591. To be taken for credit only with the approval of the graduate coordinator. (Does not count towards 30 credits required for graduation.)
- 609 Guided Study in Biology (3) All nonthesis students must complete a laboratory, field, or library research project under the guidance of one of the biology faculty. PREREQ: Completion of core courses.

610 Thesis (3)

The following courses are combined graduate and undergraduate courses. Graduate students will be expected to complete additional course work beyond that required of undergraduate students, as described in the course syllahus provided by the instructor.

- 531 Molecular Genetics (3) This course exposes graduate students interested in gene manipulation to up-to-date information in procaryotic and eukaryotic genetics. (3, 0) PREREQ: Introductory genetics, one year of organic chemistry.
- This course may be taken again for credit.

- **564** Microbial Physiology (3) Physiology and biochemical variations are studied in the prokaryotes and lower eukaryotes. Lab BIL 564. (3, 3) PREREQ: Microbiology, genetics, and organic chemistry.
- 565 Immunology (4) Immunoglobin structure and function, nature of antigens, cell-mediated immunity, hypersensitivity, regulation of immunity, and immunological diseases. Laboratory experience in immunological techniques. Lab BIL 565. (3, 3) PREREQ: Microbiology, one year of organic chemistry.
- 566 Plant Physiology and Biochemistry (3) Plant-cell physiology, including respiration, photosynthesis, enzyme catalysis, auxins, and membrane phenomena. Lab BIL 566. (2, 3) PREREQ: College botany, organic chemistry.
- 567 Endocrinology (3) An integrative look at the physiology of the mammalian endocrine system in the regulation and maintenance of homeostasis. The pathology associated with hormone imbalance will be included. (3, 0) PREREQ: Cell physiology and mammalian physiology.
- 568 General Animal Physiology (4) General theoretical and applied principles of the physiology of various animal cells, tissues, and organs, with an emphasis on homeostasis and mammalian physiology. Lab BIL 568. (3, 3) PREREQ: One year of organic chemistry, statistics.
- 570 Population Biology (3) A quantitative second course in ecology, emphasizing distributional patterns and fluctuations in abundance of natural populations. Lab BIL 570. (2, 3) PREREQ: General ecology, statistics, calculus.
- 571 Wetlands (3) A course designed to provide practical experience in wetlands classification, delineation, regulation, management, and mitigation practices. The abiotic and biotic characteristics of inland and coastal wetlands are emphasized. Lab B1L 571. (2, 3) PREREQ: Eight hours of biology or permission of instructor.
- 575 Plant Communities (3) A survey of ecological, morphological, and physiological strategies of plants from seed through adult stages. The integration of these strategies to explain the major plant communities of North America will be covered. Lab BlL 575. (2, 3) PREREQ: General biology.
- 576 Limnology (3) The measurement and analysis of the physical, chemical, and biological properties of freshwater environments, with emphasis on lake ecosystems. Lab BIL 576. (2, 3) PREREQ: General chemistry.
- 580 Light Microscopy and the Living Cell (3) Theory and practical techniques of all types of light microscopy and their uses in investigating living cells. Also includes techniques such as microinjection, cell electrophysiology, and others. Strong emphasis on "hands-on" work with equipment. (2, 2)
- **584** Epidemiology (3) A general study of the epidemiology of both infectious and environmentally related health problems. Methods of interviewing

and data collecting also are included. (3, 0) PRE-REQ: Microbiology.

The following courses are senior-level undergraduate courses that are acceptable for graduate students. Graduate students should expect to be graded by the same standards as the undergraduate students. Selection of these courses must be done with the approval of the student's adviser.

- 421 Cell and Motecular Biology (4) A lecture and laboratory course covering the molecular bases of cellular life. Eukaryotic cell structure and function will be emphasized. Lab BIL 421. (3, 3) PREREQ: Cell physiology, one year of organic chemistry.
- **428** Animal Histology (3) Structure and function of animal tissues and organs. Lab BIL 428. (2, 2) PREREQ: Zoology.
- 448 Animal Development (4) Introduction to principles of animal development with laboratory study of selected vertebrate embryos. Lab BIL 448. (3, 3) PREREQ: Cell physiology, genetics, zoology.
- **452** Parasitology (3) Morphology and life cycles of the important parasites of man and animals. Emphasis is on identification of diagnostic forms and understanding of diseases associated with parasites. (3, 0) PREREQ: Zoology, microbiology.
- **454** Mycology (3) An introductory course, including a general study of the biology of fungi and a survey of the field of medical mycology. (3, 0) PREREQ: Microbiology.
- 456 Virology (3) Molecular biology of bacterial, plant, and animal viruses; virus classification, ultrastructure, mechanisms of replication, and effects of virus infection on host cells. (2, 3) PRE-REQ: Genetics, microbiology, one year of organic chemistry.
- **457 Functional Animal Morphology (3)** A study of the structure, form, and function of morphological adaptations in animals as examined through a mechanical, ecological, and evolutionary perspective. (3, 0) PREREQ: General zoology.
- 472 Aquatic Biology (3) An introduction to the ecology and identification of aquatic organisms, with emphasis on the biota of streams and wetlands. Lab BlL 472. (2, 3) PREREQ: Botany, zoology, general ecology.
- 474 Microbial Ecology (4) Theory and application of modern microbial ecology. Lectures will focus on topics such as microbial communities, interactions with other organisms, biogeochemistry, and biotechnology. Lab BIL 474. (3, 3) PREREQ: Microbiology, ecology, general chemistry.
- 485 Systematic Botany (3) Principles of taxonomy and biosystematics. Selected plant families from tropical and temperate zones. Each student develops a proficiency in the use of modern flora and knowledge of the common species of the spring flora of Chester County. Lab BIL 485. (2, 3) PREREQ: Botany.

Master of Business Administration Program

317 Anderson Hall

West Chester University

West Chester, PA 19383

610-436-2608

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E-mail: mba@wcupa.edu

Mr. Hamilton, M.B.A. Director

Program of Study

West Chester University offers an M.B.A. program which is:

· designed for professional growth and career advancement

multidisciplinary

- · innovative, affordable, and convenient
- · relevant for today's changing business climate

The departments of Accounting, Economics/Finance, Management, and Marketing jointly offer a program leading to the master of business administration (M.B.A.) with areas of concentration in economics/finance, executive, general business, and management. WCU's M.B.A. program seeks motivated individuals with diverse backgrounds who have demonstrated quality performance as an undergraduate. Special provisions are available for candidates who do not have accounting and/or statistical course exposure. The program consists of 30 semester hours of core courses plus six semester hours of courses selected from the concentration. WCU offers one M.B.A. program with four options for attending classes. The differences are presentation format, location, and times when the classes meet. The courses are the same for all options, but admissions requirements differ. All students have full access to all University resources.

Evening Classes

This option allows a student to enroll in one, two, or three weekly classes each semester—fall, spring, summer. Classes are held on our main campus in the Borough of West Chester.

Executive Classes

This option allows completion of the program in two years. Typically, these candidates are middle- and upper-level managers who already have significant professional and/or management responsibilities. Acceptance includes attendance at an Open House and a personal interview with the M.B.A. director. Classes meet every three weeks on Thursday and Friday evenings and all day on Saturday. Six credit hours of classes are required each semester—fall, spring, and summer. Classes are held on West Chester's campus, with class startup in the fall semester.

Accelerated Classes

The accelerated program can be completed in two years. It is anticipated that candidates will have three or more years of business experience. Classes meet for two weeks, with a one-week break for six 10-week sessions on Friday evening and half-day on Saturday. Six credit hours are completed each session. These classes are held at Cabrini College in Radnor, Pa.

On-Site Program

This program can be tailored to various corporate locations and time commitments.

M.B.A. students are expected to have access to a computer.

MASTER OF BUSINESS ADMINISTRATION

(36–42 semester hours)

The recommended course sequence is as follows:

1. Initial Core Courses

MGT 514 Evolution of Management (3)

30 semester hours

MGT 560 Business Communications (3)

Followed by:

MKT 501 Marketing Management (3)

ECO 501 Business and the Economics Environment (3)

* ACC 500 Financial Accounting (3) (not part of 30 credits)

MIS 501 Management Information Systems (3)

ACC 501 Managerial Accounting (3)

* ECO 502 Fundamentals of Statistics (3) (not part of 30 credits)

FIN 501 Financial Management (3)

MGT 511 Management and Organizational Theory (3)

Final Core Courses

MGT 599 Strategic Management (3)

Followed by:

MGT 600 Managerial Problem Analysis (3)

2. Concentration Courses

A. Economics/Finance

6 semester hours

Required:

ECO 547 Managerial Economics (3)

F1N 544 Investment Analysis and Portfolio Management (3)

B. Executive

6 semester hours

Required:

Two specified M.B.A. courses

C. General Business (Individualized)

6 semester hours

Required:

Two specified M.B.A. courses with prior written consent of M.B.A. director

D. Management

6 semester hours

Required (two of the following):

MGT 513 Business and Society Management (3) MGT 531 Human Resource Management (3)

MGT 541 Production and Operations Management (3)

MGT 561 International Business (3)

MGT 587 Special Topics in Management (3)

See department sections for course descriptions.

Admission Requirements

M.B.A. applications are processed throughout the year.

Applicants must submit to the Office of Graduate Studies and Sponsored Research all undergraduate transcripts demonstrating quality performance at the undergraduate level; appropriate scores from the Graduate Management Admissions Test; an essay on career plans; a current resume; and two letters of recommendation. Registration for M.B.A. courses must be approved by the M.B.A. director.

In addition to the TOEFL requirement of 550, international M.B.A. applicants, upon acceptance and arrival on campus, will be interviewed by a representative of the English as a Second Language (ESL) Program for a review of their English language-speaking skills. For those students requiring additional study, a remedial program will be recommended and required as a part of their initial M.B.A. studies.

Degree Candidacy

For degree candidacy approval, students must maintain a minimum cumulative Grade Point Average (GPA) of 3.0 in all M.B.A. courses and a 3.0 GPA in concentration courses, be fully matriculated, and have completed all foundation courses.

Graduation Requirement

Students must maintain a minimum cumulative GPA of 3.0 in all M.B.A. courses and a 3.0 GPA in concentration courses.

* M.B.A. candidates may have satisfied these required courses as undergraduates or through acceptable equivalents. These courses are scheduled in the evenings, once a week for 10 weeks each designated semester.

Accounting

Mr. Galbraith, Chairperson (610-436-2236)

PROFESSORS

Charles H. Mott, C.P.A., Ph.D., American University

Ali Naggar, Ph.D., University of Oklahoma

ASSISTANT PROFESSORS

Kevin E. Flynn, C.P.A., M.S., *Drexel University* Clyde J. Gailbraith, M.B.A., *Drexel University* Randall E. LaSalle, C.P.A., Ph.D., *Drexel University*

Carl M. Smith, M.B.A., Temple University

COURSE DESCRIPTIONS ACCOUNTING

Symbol: ACC

500 Financial Accounting (3) A study of financial statements and financial accounting valuation for assets, liabilities, stockholders' equity, income, and expense. For those students admitted to M.B.A. studies without the previous course work in accounting; is equivalent to two undergraduate courses. Normally offered in the spring and summer.

501 Managerial Accounting and Control (3) A course in advanced managerial accounting, focusing on accounting methods and techniques useful in making business decisions, Included are mea-

surements of divisional performance, revenue and pricing decisions, product decisions, and capital budgeting. Control systems and techniques are examined from a managerial perspective.

Required core course. PREREQ: ACC 500 or undergraduate equivalent.

510 Current Accounting Concepts (3) Financial accounting with primary emphasis on current professional accounting principles and practices. Topics to be covered include income determination, asset valuation, and financial statement evaluation. This course will provide a bridge from theory to practice. PREREQ: ACC 501.

520 Accounting Information Systems (3) Theoretical and practical aspects of the develop-

ment and management of accounting information systems in businesses and other organizations. Development of a general model for use in system design and evaluation with subsequent study focusing on practical applications of the model using case studies and computer-related projects. PREREQ: ACC 501.

530 Accounting Planning and Research (3) Development of alternative strategies used by business management to minimize the impact and amount of income tax liability of the firm. Topics to be covered include tax planning, current tax regulations, and related complex taxation problems and issues. PREREQ: ACC 501.

Economics and Finance

Dr. Benzing, Chairperson (610-436-2217)

PROFESSORS

Cynthia D. Benzing, Ph.D., *Drexel University*Philip DeMoss, Ph.D., *Kansas State University*Tahany Naggar, Ph.D., *University of Oklahoma*Patrick J. M. Sylvester, Ph.D., *Bryn Mawr College*

ASSOCIATE PROFESSORS

Roger E. Bove, Ph.D., Harvard University Daniel Mohan, Ph.D., Rutgers—The State University

ASSISTANT PROFESSORS

Kevin Dunleavy, Ph.D., *Duke University* Thomas W. Tolin, Ph.D., *University of Houston*

COURSE DESCRIPTIONS ECONOMICS

Symbol: ECO

501 Business and the Economics Environment (3) This course is intended to develop the application of economic theory to the practice of management decision making. Required core course. 502 Fundamentals of Statistics for Business Economics (3) Frequency distributions, random variables, probability theory and models, estimation theory, hypothesis testing, analysis of variance, regression and time-series analysis. Intended for those students with no previous course work in statistics. Normally offered in summer and fall 503 Economic Role of Women (3) Statistics indicate that one of the most important changes in the American economy in this century is the increase in the number of working women. Job-related aspects, such as the historical pattern, labor force participation, education, earnings, labor supply, and sex discrimination will be examined. PREREQ: ECO 501 and ECO 502, or undergraduate equivalents. 510 Applied Econometrics (3) Analysis of multivariate models, determination of trends, oscillation, and periodic movements. Topics include remedies for auto-correlation and multicollinearity; dummy variables; distributed lags, forecasting and simulation; and

alternative estimation techniques, such as two-stage

least squares, three-stage least squares, and maximum likelihood estimators. PREREQ: ECO 501 and ECO 502, or undergraduate equivalents.

525 Contemporary Monetary Theory and Financial Institutions (3) This course enhances the student's capability to analyze the interrelationships between aggregate economic activity, financial markets, and central banking instruments, objectives, and policy. Topics relate to demand for financial assets. PREREQ: ECO 501.

530 Economics and Public Policy (3) The principles and methods of economic analysis are used to evaluate the American economic system. Inflation, recession, and economic growth; problems of public finance and taxation; public policy regarding the concentration of economic power. PREREQ: ECO 501.

547 Managerial Economics (3) Development and application of a set of advanced micro-macro economic concepts to serve both as a source of theoretical structure and unification of other business sciences. Emphasis will be given to topics such as risk analysis, linear programming, and capital budgeting. PREREQ: ECO 501 and ECO 502. Completion of all M.B.A. core courses or written permission of instructor

590 Special Topics (3) A seminar or independent study course on selected economic topics. Includes

a research paper or project which treats a contemporary economic issue from an interdisciplinary, policy-level perspective. PREREQ: ECO 501 and ECO 502. Completion of all M.B.A. core courses or written permission of instructor.

FINANCE

Symbol: FIN

501 Financial Management (3) Theory and practice of managerial finance, with emphasis on analysis and understanding of the financial consequences of managerial decisions. Topics include financial statements, capital budgeting, working capital, and special contemporary concerns, such as small business finance. Required core course. PREREQ: ACC 500, ECO 501, and ECO 502, or undergraduate equivalents.

544 Investment Analysis and Portfolio

Management (3) Introduction to investments, including examination of why and how individuals invest. This course provides an overview of the process by which an individual seeks out and synthesizes information about investment opportunities in order to make decisions to add to, maintain, or delete assets from an investment portfolio. Special attention is directed to the risk and return of assets. PREREQ: FIN 501 and completion of all M.B.A. core courses or written permission of instructor.

Management

Dr. McGee, Chairperson (610-436-2363)

PROFESSOR

Hung M. Chu, Ph.D., Louisiana State University

ASSOCIATE PROFESSORS

Charles H. McGee, Ph.D., Northwestern University

Rani G. Selvanathan, Ph.D., *University of Delhi, University of Paris* Roberta Snow, Ph.D., *University of Pennsylvania*

ASSISTANT PROFESSORS

James W. Hamilton, M.B.A., Northeastern University Evan Leach, Ph.D., Yale University

COURSE DESCRIPTIONS MANAGEMENT

Symbol: MGT

500 Fundamentals of Management (3) This course provides the conceptual foundation in management theory, principles, and practices for the more advanced courses required for the M.B.A. Intended for those students with no previous course work in management.

511 Management and Organization Theory (3) An examination of management functions and managerial processes from a systems perspective. This course traces the evolution and development of management and organization principles and theories, with emphasis on the development of a framework for analysis of managerial problems and opportunities in both private and public sectors. The relationship between the individual and the organization, and topics such as leadership, communications, motivation, and decision making will be explored. Successful mastery of topics covered in a traditional principles of management course will be assumed. Required core course. PREREQ: MGT 514 or written permission of instructor.

513 Business and Society (3) The context and environment in which business organizations operate with specific attention to the social, ethical, political, and legal dimensions of an organization's external environment. Value assumptions, means-ends relationships, and policy ramifications of the constraints and opportunities inherent in the environment will be examined in depth. A managerial perspective will be developed to build a framework for macro-level trade-offs among and between competing economic, social, ethical, political, and legal forces and goals. PREREQ: Completion of all M.B.A. core courses or written permission of instructor.

514 Evolution of Management Practice (3) Introduction to management practice in various business and organizational contexts from an evolutionary and socio-economic perspective. Required initial core course.

521 Organizational Development (3) Interpersonal relations, intra- and intergroup relations, and the leadership role and function in the management of organizational development, change, conflict, and productivity. Primary focus will be on organizational development as an intervention strategy aimed at changing and improving organi-

zational climate and performance. Organizations will be viewed as sociotechnical systems interacting with both internal and environmental forces. PRE-REQ: Completion of all M.B.A. core courses or written permission of instructor.

531 Human Resources Management (3) The managerial implications of the human resources management and personnel administration functions. Topics include forecasting and planning of staffing requirements, recruitment, selection, allocation, evaluation, and development of the human resources of an organization. Lectures, class discussions, and case materials will be used. PRE-REQ: Completion of all M.B.A. core courses or written permission of instructor.

541 Production and Operations Management (3) Effective formulation and solution of problems in the acquisition of productive resources by the firm, their configuration into a productive system, and their utilization in producing goods and services. This course focuses on operational rather than strategic aspects, using quantitative techniques in the areas of demand forecasting, production and capacity planning, transportation facilities layout and job design, inventory control, quality control, waiting line problems, and scheduling. PREREQ: Completion of all M.B.A. core courses or written permission of instructor.

551 Managerial Decision Making (3) The course provides technical enrichment, including an exposure to various types of decision-making techniques for a prospective specialist in decision science. Situations examined will include distribution, resource allocation, project scheduling, congestion in service system, decision support systems, and artificial intelligence. PREREQ: MGT 511.

560 Business Communications (3) The theory and practice of effective personal and organizational communications; development of managerial skills in verbal and written communications for a variety of media and forums; and practical experience in the delivery of management-oriented oral presentations and written papers. Particular attention will be paid to identifying and overcoming barriers to effective communication and insight. Required initial core course.

561 International Business (3) Examination of the problems of management, marketing, and finance when developing and engaging in international business. Attention to the formulation of alternative strategies for developing international business enterprises, the impact and consequences of implementing various alternative strategies for traditional business functions, problems of the multinational firm, and the special challenges of doing business with or in underdeveloped countries. PREREQ: MGT 514 and MKT 501 or written permission of instructor.

587 Special Topics in Management (3) A semi-

nar or independent study course providing exposure to current literature and discourse on selected issues in management. Includes an individual research project treating a complex management issue from an interdisciplinary, policy-level perspective. Parallel seminar discussions with peers. the instructor, and with outside experts will provide a sounding board for hypotheses formulation and testing. Extensive exposure to professional journals will be required in order to enhance familiarity with contemporary advances in theory and practice. PREREQ: Completion of all M.B.A. core courses or written permission of instructor. 599 Strategic Management (3) An in-depth examination of the processes by which business strategies are conceived, formulated, executed, and changed. Specific topics include strategic planning, endogenous and exogenous influences affecting strategic feasibility, analyses, and choices. Comprehensive strategy-oriented cases from a variety of business contexts are used. Should be taken in student's final semester. Required core course. PREREQ: Completion of all M.B.A. core courses and before MGT 600.

600 Managerial Problem Analysis (3) The purpose of this course is to teach a practice of theory and methodology of organizational assessment and "planned change" interventions. This course requires a supervised field project as the primary mode of learning and will require the student to work directly with faculty from the School of Business and Public Affairs. Final core course. PREREQ: MGT 599.

MANAGEMENT INFORMATION SYSTEMS

Symbol: MIS

501 Business Information Systems (3) A blending of theory, case studies, and personal computer applications to the solution of business information problems. Students will gain insight into functional and strategic implications of information resources, technology, and systems. Required core course.

Marketing

Dr. Redington, Chairperson (610-436-2259)

ASSOCIATE PROFESSOR

John T. Redington, Ph.D., Pennsylvania State University

ASSISTANT PROFESSORS

Paul F. Christ, Ph.D., *Drexel University*John E. Gault, Ph.D., *Drexel University*Sandra M. Tomkowicz, J.D., *University of Pennsylvania*

COURSE DESCRIPTIONS

LAW Symbol: BLA

501 Legal Environment of Business (3) An in-depth examination of legal issues for business organizations, including constraints and opportunities. Primary attention will be given to an intensive exploration of the law as it affects business contracts, sales, commercial paper, and the formation and operation of a business entity from the perspective of the manager. This course is

designed to meet the professional needs of managers who have minimal exposure to the law and to enhance their knowledge of the legal ramifications of business operations.

MARKETING

Symbol: MKT

500 Principles of Marketing (3) An introduction to marketing. Selection of target markets, developing marketing mixes, decision making, planning, implementation, and monitoring of marketing pro-

grams. Intended for students with no previous course work in marketing.

501 Marketing Management (3) An analytical approach to the study of marketing, focusing on the total environment in which marketing decisions are made. Emphasis is on planning the marketing effort and integrating it into the total operation of an organization; i.e., managing the marketing function. Familiarity with topics covered in a traditional principles of marketing course will be assumed. Required core course.

Chemistry

Room 112 Schmucker Science Center I West Chester University West Chester, PA 19383 610-436-2631

Dr. Ghoroghchian, Chairperson

Dr. Ahmad, Coordinator of Graduate Studies

Dr. Fenton, Director of Clinical Chemistry

PROFESSORS

John Fenton, Ph.D., University of Minnesota Jamal Ghoroghchian, Ph.D., University of Southampton Andrew Goudy, Ph.D., University of Pittsburgh John Mangravite, Ph.D., University of New Hampshire Michael Moran, Ph.D., University of Pennsylvania

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ASSISTANT PROFESSORS

James Falcone, Ph.D., University of Delaware Felix Goodson, Ph.D., University of California, Berkeley Timothy Starn, Ph.D., Indiana University John Townsend, Ph.D., Cornell University

Programs of Study

The Department of Chemistry offers a program leading to the master of science in chemistry, master of science in clinical chemistry, master of education in chemistry, and master of arts in physical science.

MASTER OF SCIENCE IN CHEMISTRY

Admission Requirements

In addition to meeting the general requirements for admission to a degree program at West Chester, applicants must present an undergraduate background that includes mathematics through calculus, one semester of analytical chemistry, and full-year courses in organic chemistry and physical chemistry.

*A computer science course taken to satisfy the foreign language requirement will not be counted as an elective toward the degree.

Degree Requirements

- Before admission to degree candidacy, each student is required to
 pass three qualifying examinations in the five major areas of
 chemistry (inorganic, analytical, physical, organic, and biochemistry). The student may select up to four areas. If necessary, the
 examinations in each area may be retaken once. The student may
 be required to enroll in appropriate undergraduate courses for no
 credit in order to prepare for a re-examination. These examinations
 must be passed before admission to degree candidacy, i.e., prior to
 the attainment of 15 graduate credits.
- 2. At the discretion of the department chairperson, Graduate Record Examination scores may be required for purposes of evaluation and guidance.
- 3. Reading proficiency is required in any one of the following modern languages: German, French, or Russian. The reading test is administered by the Department of Foreign Languages. In place of the modern-language proficiency, a demonstrated proficiency in a computer language may be substituted.*
- 4. The candidate must perform successfully on an oral examination, which is required for Options A, B, and C listed below. The oral examination will include general chemistry knowledge but will place emphasis on the area represented by independent study or the research report. The members of the examination committee include the research supervisor, the departmental graduate coordinator, and two other professors.

Program for the Master of Science in Chemistry

The M.S. in chemistry program consists of a required core of 15 semester hours and a chemistry elective area for which there are three options. (See the description of each option for the total semester hours required.) All students must complete the core, composed of CHE 511, 531, 540, or 543, and any two of the topics courses (CHE 515, 525, 533, 544, 551, or 575). One semester of CHE 591 must be taken.

Option A (30 semester hours)

This is the thesis program. Beyond the core, the candidate takes Thesis (CHE 610) for three credits, Research in Chemistry (CHE 580) for three credits, and seven semester hours of electives.

Option B (33 semester hours)

Beyond the core, this option requires Research in Chemistry (CHE 580) for six credits and 10 semester hours of electives.

Option C (36 semester hours)

Under this plan, the student completes core requirements and an elective area of 19 semester hours that must include three credits in Research in Chemistry (CHE 580).

Under all options, the elective area is developed under advisement from chemistry offerings but may include three semester hours from another science area or from mathematical sciences.* Until admitted to degree candidacy, students may not undertake independent study.

MASTER OF SCIENCE IN CLINICAL CHEMISTRY

Admission Requirements

An applicant must meet the general requirements for a degree program at West Chester University and must hold a bachelor's degree in chemistry, medical technology, or a closely related field.

Course prerequisites for admission include one semester each of analytical chemistry, biochemistry, physics, clinical chemistry, clinical chemistry laboratory, and physical chemistry. Two semesters of organic chemistry and mathematics through calculus also are required. Several of the above courses may be waived if the applicant has graduated from a four-year nationally certified medical technology program. Students who do not meet program prerequisites may take required courses upon enrollment. Graduate Record Examination scores may be required prior to acceptance.

Degree Requirements

- Before admission to candidacy, each student must pass a comprehensive examination covering the areas of biochemistry, clinical chemistry, and analytical chemistry. This examination is usually administered after one-half of the student's course work is completed. If necessary, this examination may be retaken once.
- 2. The candidate must perform successfully on an oral examination, which is required for all program options. The oral examination will include general chemistry knowledge but will place emphasis on the area represented by independent study or the research report. The members of the examination committee include the research supervisor, the departmental graduate coordinator, and two other professors.

Program for the Master of Science in Clinical Chemistry

The program consists of a required core of 20 semester hours. Additional credits needed for the degree may be pursued under three options. Core courses: ADM 505, CHE 524, 548, 555, 579, 582, 591 (CHE 550, Clinical Chemistry Internship, is also required of students who lack previous clinical laboratory training.)

Option A (36 semester hours)

Core, plus CHE 580 (Research in Chemistry), plus 13 semester hours of electives from chemistry, biology, physics, mathematics, computer science, or administration.

Option B (30 semester hours)

Core, plus four semester hours of electives, plus three credits of thesis (CHE 610) and three credits of Research in Chemistry (CHE 580).

Option C—Master of Science in Clinical Chemistry and Certificate in Administration (38 semester hours)

Chemistry core, plus three semester hours of CHE 580, plus core from the graduate administration program. The student minors in administration and receives the M.S. degree, in addition to the certificate in administration.

*A computer science course taken to satisfy the foreign language requirement will not be counted as an elective toward the degree.

MASTER OF EDUCATION IN CHEMISTRY

Admission Requirements

In addition to meeting the general requirements for admission to a degree program at West Chester University, applicants must present an undergraduate background, including mathematics through calculus and 24 semester hours of undergraduate chemistry.

At the discretion of the department chairperson, Graduate Record Examination scores may be required for evaluation and guidance.

Degree Requirements

- If academic or professional performance is less than satisfactory during the precandidacy period, the student may be required to enroll in an appropriate undergraduate course.
- 2. Successful performance on a comprehensive oral examination given upon completion of the program.
- 3. Successful completion of the program outlined below.

Program for the Master of Education in Chemistry (34 semester hours)

The M.Ed. in chemistry program consists of professional education requirements and area concentration requirements as outlined below.

Professional Education Requirements 12 semester hours (See page 83.)

Area of Concentration

22 semester hours

A. Required

15 semester hours

CHE 511 Advanced Inorganic Chemistry I (3)

CHE 524 Analytical Chemistry 11 (3)

CHE 531 Organic Reaction Mechanisms (3)

CHE 540 Chemical Thermodynamics (3)

(CHE 543 may be taken in place of CHE 540.)

SCE 500 Modern Trends in Science Education (3)

B. Electives, under advisement (7)

MASTER OF ARTS IN PHYSICAL SCIENCE

Admission Requirements

Students entering the program are normally expected to have a bachelor's degree in science or science education and, if teaching in the public schools, a valid teaching certificate.

Degree Requirements

Students in this program take 34 semester hours of course work and successfully complete a comprehensive examination that will demonstrate subject matter knowledge, as well as an ability to observe, analyze, integrate, synthesize, and understand the broad physical concepts related to the course of study.

Program for the Master of Arts in Physical Science

The program may be adapted to meet the needs of those who teach, plan to pursue graduate studies in other institutions, or prepare for careers in physical sciences.

Leading to the master of arts degree, the program makes it possible for students to plan a sequence of studies meeting their individual needs. This program is developed, under advisement, and may be accomplished either through selections from chemistry, geology and astronomy, mathematics, and science education or concentrating in various branches of chemistry. Normally, course work is restricted to these areas. However, exceptions may be made under special circumstances. Students should consult with the graduate coordinator. For the description of course offerings, see the section covering the appropriate departments.

COURSE DESCRIPTIONS CHEMISTRY

Symbol: CHE unless otherwise shown. CRL indicates laboratory.

500 Fundamentals of Radioisotope Techniques (3) Biological, chemical, environmental, and physical effects of nuclear radiation. Radiation detec-

This course may be taken again for credit.

tion instrumentation and radio tracer methodology.

503 Chemistry of the Environment (3) The chemistry of the atmosphere, hydrosphere, and biosphere; man's impact on these areas. (Not for M.S. in chemistry.)

• 505 Fundamental Topics in Chemistry (2-6) Basic level elective courses in chemistry for professional growth. (Not for M.S. in chemistry.) PREREQ; General chemistry.

509 Descriptive Inorganic Chemistry (3) The emphasis of this course is on periodic properties of the representative elements, the structure of inorganic solids, the chemistry of aqueous and nonaqueous solutions, and the study of some transition metals. Lathanides and actinides also are studied. (Not for M.S. in chemistry.) PREREQ: CHE 103 104.

511 Advanced Inorganic Chemistry I (3) Structure and properties of the elements and their compounds from a theoretical point of view; the periodic law, acids and bases, structure and reactivity of metal compounds and main group compounds. PREREQ: CHE 341.

• 515 Topics in Inorganic Chemistry (3) Topics of current interest in inorganic chemistry. Topic to be announced prior to registration.

517 History of Chemistry (1) The history of chemistry and its predecessors from ancient times to the present.

518 Literature of Chemistry (1) Instruction in the use of a modern chemical library, reference and data acquisition, synthetic procedures, and computer data bases. PREREQ: CHE 231.

519 Ethics and Human Values in Science (1) A one-semester course for science majors to acquaint students with potential ethical problems in their professional careers.

524 Analytical Chemistry 11 (3) Basic principles of applied instrumental analysis. Special emphasis on the use of spectrophotometric, electroanalytical, and chromatographic instrumentation.
PREREQ: CHE 321 and CHE 341.

CRL 524 Analytical Chemistry II Laboratory (2) Practical experience in the choice and application of instrumental methods to chemical systems. CONCURRENT or PREREQ: CHE 524.

• 525 Topics in Analytical Chemistry (3) Indepth examination of current topics in instrumental or wet chemical analysis. Special emphasis on state-of-the-art development and applications. Topic announced prior to registration.

CRL 527 Electron Microscopy I (3) A onesemester lecture/laboratory course in theory operation and applications of electron beam technology in scientific research. Course scheduled on student-demand basis.

531 Organic Reaction Mechanisms (3)

Theoretical treatment of selected organic reactions. Emphasis on bonding theory, structural relationship, equilibria, and free-energy relationships.

• 533 Topics in Organic Chemistry (3) Topics of current interest in organic chemistry. Topic announced prior to registration.

535 Qualitative Organic Analysis (5)

Identification of pure organic compounds and mixtures of organic compounds using classical and modern instrumental techniques. Laboratory included.

536 Polymer Chemistry (3) Polymerization kinetics, rheology of polymer melts, crystallization parameters, and monomer reactivity in copolymerization.

CRL 536 Polymer Chemistry Laboratory (2) A

course designed to introduce the advanced student to the synthesis of polymers and the study of the molecular, physical, and thermal properties of these compounds. PREREQ: CHE 232/CRL 232. COREQ: CHE 536.

540 Chemical Thermodynamics (3) Laws and functions of thermodynamics and their applications: introduction to statistical thermodynamics.

543 Quantum Chemistry (3) Basic quantum chemistry, including the hydrogen atom problem, chemical bonding, spectroscopic concepts, and group theory.

• 544 Topics in Physical Chemistry (3) Topics of current interest in physical chemistry. Topic announced prior to registration.

548 Clinical Biochemistry (3) A one-semester course on the biochemical basis of disease. Case histories are discussed with emphasis on the clinical interpretation of laboratory data. PREREQ: CHE 581.

550 Internship in Chemistry (3-6) A full- or part-time work/study appointment in a hospital, commercial, governmental, or industrial laboratory supervised jointly by an on-site supervisor and a chemistry department faculty member. PREREQ: Permission of the department internship committee. 555 Quantitative Clinical Methods (3) A course on the mathematical aspects of clinical laboratory science. Statistics and laboratory uses for comput-

560 Advanced Organic Spectroscopy (3) An advanced course in organic spectroscopy dealing with IR, NMR, and MS techniques. PREREQ: CHE 531.

ers are stressed. PREREQ: CHE 581.

571 Fundamentals of Biochemistry (3) Structure and chemistry of proteins and nucleic acids; molecular biology, physio-chemical methods for biomacromolecules, enzymes, and the molecular basis for some physiological phenomena. Lab: CRL 571. PREREQ: Physical chemistry.

CRL 571 Experimental Biochemistry (2) Laboratory exercises in the fundamentals of biochemistry. CONCURRENT or PREREQ: CHE 571

CRL 572 Experimental Biochemistry II (2) A second-semester laboratory course in biochemistry that stresses the use of advanced analytical instruments to characterize biologically important molecules and to eludicate their mechanism of action.

575 Topics in Biochemistry (3) Topics of current

575 Topics in Biochemistry (3) Topics of current interest in biochemistry. Topic announced prior to registration.

576 Biochemistry 1 (3) A two-semester course in biochemistry. The first part shows how the chem-

istry of amino acids, proteins, enzymes, carbohydrates, lipids, and membranes enables living organisms to perform biological functions. PRE-REQ: CHE 232 and physical chemistry.

577 Biochemistry II (3) The second part of biochemistry covers the biosynthesis of diverse molecules, DNA structure and function, and molecular physiology, including immunoglobulins, hormones, nutrition, and nerve action. Chemistry will be related to normal and pathological biological functions. PREREQ: CHE 576.

579 Chemical Toxicology (3) A one-semester course in the basic principles of toxicological analysis. Special emphasis will be placed on documentation, sampling, and verification of laboratory materials and results. The environmental and physiological aspects of chemical toxicity will be explored.

CRL 579 Chemical Toxicology Laboratory (2) A one-semester course in the basic principles of toxicological analysis. CONCURRENT or PRE-REQ: CHE 579.

• 580 Research in Chemistry (3-6) Independent research in chemistry, under the direction of a member of the chemistry faculty.

581 Clinical Chemistry (3) Analysis of biological fluids. Clinical significance of enzyme, electrolyte, protein, and carbohydrate analysis. Requires permission of instructor or undergraduate preparation in organic chemistry and quantitative analysis. CONCURRENT or PREREQ: CHE 571; PREREQ: CHE 321.

582 Advanced Clinical Chemistry (3) A one-semester course with emphasis on recent advances in testing modalities, instrumentation, and methodologies in clinical chemistry. PRE-REQ: CHE 571 and 581.

583 Clinical Chemistry Seminar (2) A course emphasizing the recent literature in clinical chemistry. Student lecture presentations and round table discussions are used. PREREQ: CHE 581.

591 Seminar (2) Topics of current interest in chemistry.

*610 Thesis (3)

SCC 570 Science and Human Values (3) Not for M.S. in chemistry.

• This course may be taken again for credit.

Graduate students beginning their research program should enroll in CHE 580, which may be repeated. Students should enroll in CHE 610 during their last semester. Only under rare circumstances may CHE 610 be repeated.

Communication Studies

512 Main Hall West Chester University West Chester, PA 19383 610-436-2500

Dr. Klinzing, Chairperson

Dr. Casagrande, Coordinator of Graduate Studies

PROFESSORS

Diane O. Casagrande, Ph.D., *Temple University* Kevin W. Dean, Ph.D., *University of Maryland* Anita K. Foeman, Ph.D., *Temple University* Dennis R. Klinzing, Ph.D., *Pennsylvania State University* Mary W. McCullough, Ph.D., *Temple University*

C. Jack Orr, Ph.D., Temple University

ASSOCIATE PROFESSORS

Elaine B. Jenks, Ph.D., *Pennsylvania State University* Sara E. Newell, Ph.D., *University of Utah* Michael V. Pearson, Ph.D., *Temple University* Martin S. Remland, Ph.D., *Southern Illinois University*

ASSISTANT PROFESSORS

David G. Levasseur, Ph.D., *University of Kansas*Thomas G. Reed, Ph.D., *Union of Experimental Colleges and Universities*

Philip A. Thompsen, Ph.D., University of Utah

Programs of Study

The M.A. in communication studies currently has two tracks: thesis and nonthesis. The first is a 36-credit applied curriculum in which two courses, COM 501 and COM 502, are required, and 15 credits must be selected from among the communication studies offerings. An additional 15 credits of course work are selected to allow a focus on the application of communication to a specific area, such as administration, management, teaching, and training and development. This program is envisioned as a terminal degree that may provide the opportunity for practicing professionals to sharpen their skills or change careers. The program also should help those who have not vet entered the job market by increasing their competence in communication and an applied area of their choice. The second option is a 30-credit thesis program that will provide students with the opportunity to develop the knowledge and skill needed to further research interests or to gain entry into Ph.D. programs in communication or related areas.

The courses offered in the M.A. in communication studies are graduate-level seminars that require fundamental knowledge of communication theory, research, and knowledge of scholarly methods of inquiry. Individuals who have earned a bachelor's degree in speech communication or communications at an accredited institution and who have maintained a B average or better should have the requisite knowledge and ability to be successful in the courses that comprise the program. Others, particularly those who have earned degrees in related fields such as English, psychology, and sociology, may be required to complete prerequisite undergraduate courses in communication based on an analysis of their undergraduate transcripts. Transcript analyses and possible prerequisites will, in all probability, be required for students who apply to the program with degrees in unrelated disciplines.

MASTER OF ARTS IN COMMUNICATION STUDIES

Admission Requirements

Admission to the program is contingent on satisfactory review of the following data. No single deficit will preclude a student from gaining admission. Analysis and consideration of all the material to document the following will be evaluated:

- The undergraduate GPA should be at least a 2.75 overall, and a 3.0 in the student's declared major.
- The Graduate Record Exam should show a combined score of at least 1000 in two of the three GRE test areas or a comparable score on the Miller Analogies Test.
- Undergraduate major preparation. Students in majors other than
 communication or its related areas would be advised as to possible
 communication studies remedial undergraduate course work. All
 candidates must have had courses or experience that indicate satisfactory skill in public speaking, communication theory, and communication (or related) research.

- Writing sample of work submitted by the student in response to past assignments, job activity, or creative endeavors.
- · Three letters of recommendation.
- A goals statement written on the topic, "How Does Communication Knowledge Bridge My Past Experience With My Future Plans?"

Three additional items may be used to support an application for admission:

- 1. Work experience that indicates communication skill.
- 2. Extra or co-curricular activities.
- Interview with the graduate coordinator and/or the graduate committee.

Maintenance in Good Standing

To remain in good standing, a student must maintain a minimum grade of B in all communication studies courses. A student falling below that grade must re-take the communication studies course(s) that fall below minimum in order to achieve the required grade.

Admission to Degree Candidacy

At the completion of 12 semester hours (at least nine of which are within the department), a B grade or better must be earned in each of those four courses in order for candidacy to be achieved. At candidacy, a major adviser is selected.

Curriculum

l. Courses for Nonthesis, Applied Curriculum

(36 semester hours)

- A. Required core 21 semester hours COM 501 Theoretical Perspectives (3) COM 502 Communication Research Methods (3) 15 semester hours selected from departmental offerings
- B. Applied courses

 These courses are to be selected from other departments or from communication studies courses. A six-credit graduate internship (COM 598) may be elected upon successful completion of the required core.
- ll. Courses for Thesis Option

(36 semester hours)

- A. Required core 27 semester hours COM 501 Theoretical Perspectives (3) COM 502 Communication Research Methods (3) COM 600 Communication Studies Thesis (6) 15 semester hours selected from departmental offerings
- B. Applied courses 9 semester hours
 These courses are to be selected from other departments or
 from communication studies courses.

Ill. Comprehensive Examinations

After the completion of all course work, nonthesis and thesis students will take a comprehensive written examination. Nonthesis students also will take an oral examination, while thesis students will defend their theses orally.

COURSE DESCRIPTIONS COMMUNICATION STUDIES

Symbol: COM

501 Theoretical Perspectives on Human Communication (3) A comprehensive examination

of major theoretical perspectives on human communication ranging from classical to contemporary.

502 Communication Research Methods (3) An examination of the major issues pertaining to inquiry in human communication, including the nature of inquiry; qualitative and quantitative methodological approaches to communication research; moral and ethical standards for human research; the role of the researcher; and comparisons of academic research. Students will be required to design and execute a research project.

503 Communication and Persuasive Influence

- (3) An analysis of major conceptual approaches to persuasion and their implications for understanding influence contexts and designing pragmatic
- 504 The Symbol Systems of Communication (3) Students will explore the verbal and nonverbal components of message creation in communication using primary theories to analyze language variables in different settings.
- 505 Concepts and Criticism of Public Influence (3) The criticism and history of influence will be explored to focus on examples of persuasion through public discourse.
- 506 Communication in Small Groups (3) An examination of traditional and contemporary research which pertains to various dimensions of small group communication including, but not limited to, the following topics: structure, size,
- tasks, goals, roles, systems, and leadership.

 507 Issues in Mass Communication (3) An overview of the mass communication systems, including an analysis of the elements and processes of these media, their functions, and the major issues attending their use in our culture.
- 508 Special Topic Seminar (3) An intensive examination of a selected area within communication study. Topics will vary and will be announced in advance of each semester.
- 509 Communication and Conflict Resolution
 (3) Using both theoretical and activity-centered learning, the student will explore the options available to resolve conflict through communication.
 515 Language, Thought, and Behavior (also LIN 515)
 (3) Introduction to the relativistic language concepts of Korzybski and his followers.
 The course focuses on what language does to peo-

ple and the subsequent effects on communication. 517 Producing the Television Program (Nondramatic) (3) Basic concepts of television planning and production for the nondramatic format. The student uses the tools of television. (Lecture and laboratory)

518 Television Program Directing (Dramatic) (3) Continuation and development of skills and knowledge in the use of television equipment; application of the arts of the theatre and film. (Lecture and laboratory) PREREQ: COM 517. 550 Listening: Verbal and Nonverbal Perceptions (3) A survey of research in listening behavior and related nonverbal variables. Identification of important characteristics of effective listeners. Application to communication activities in the classroom.

570 Conceptual Foundations for Communica-

tion, Training, and Development (3) This course examines major schools of thought in organizational training and development. Each viewpoint is explored for its diagnostic guidance, learning implications, and training technologies

571 Practicum in Communication, Training, and Development (3) Participants will review and practice the leading training technologies in communication and organizational development. Each particiapproved communication placements. PREREQ:

Approval of department chairperson. 599 Directed Graduate Studies (3) Research projects, reports, readings in speech communication. PREREQ: Approval of department chairperson. 600 Communication Studies Thesis (3-6)

pant will design and deliver a training workshop. 598 Graduate Internship in Communication Studies (3-6) Supervised professional training in Original research, supervised through topic selection, investigation, and oral defense.

Symbol: THA

506 Theatre Theory and Production (3) A survey of theatre history and practice. Students select specific areas of production and style for classroom, presentation, analysis, and research. 516 Theory and Application of Creative

Dramatics (3) The use of creative dramatics as a teaching method. Research and application of the-

ories and techniques.

550 Summer Drama Workshop (1-6) An intensive combination of instruction and applied production experiences. Graduate students will research production theories and submit scholarly papers at the end of the session. Offered in summer only.

Communicative Disorders

Speech and Hearing Clinic 201 Carter Drive West Chester University West Chester, PA 19383 610-436-3401

Dr. Stigora, Chairperson and Coordinator of Graduate Studies

PROFESSORS

Joseph A. Stigora, Ph.D., Bowling Green University Michael S. Weiss, Ph.D., Purdue University

ASSOCIATE PROFESSORS

Mareile Koenig, Ph.D., University of Illinois Cleavonne S. Stratton, Ph.D., Ohio State University

ASSISTANT PROFESSORS

Barbara Atcheson, Ph.D., University of Washington Elena F. Stuart, M.S., Purdue University

Program of Study

The department offers the master of arts degree in communicative disorders. The student may choose a thesis or nonthesis program. Both programs are designed to strengthen the knowledge and skill of the practicing speech clinician, to provide the foundation for further graduate study, and to afford an opportunity to complete requirements toward professional certification by the American Speech-Language-Hearing Association. Attainment of the master's degree does not necessarily guarantee recommendation for certification.

MASTER OF ARTS IN COMMUNICATIVE DISORDERS (39 semester hours)

Admission Requirements

In addition to meeting the general requirements for admission to a degree program at West Chester University, applicants must:

- 1. Present an undergraduate background of at least 30 semester hours in the following areas of study: psychology, human development, linguistics, statistics, speech and language development, phonetics, speech disorders, language disorders, hearing disorders, basic speech and hearing science, and clinical experience.
- 2. Present undergraduate transcripts showing at least a 3.0 grade point average (GPA) in the last 60 hours of study.
- 3. Demonstrate a reasonable degree of speech and language proficiency which may be measured by a written essay and a personal interview.
- 4. Submit Miller Analogies Test or Graduate Record Examination scores for purposes of evaluation and guidance.
- Submit a log of undergraduate clinical practicum, when available.
- 6. Submit three letters of recommendation.

7. Submit a 250-word essay describing future goals and aspirations.

Admission to Degree Candidacy

- 1. The applicant may apply for degree candidacy after having completed SPP 501, 502, and 508. Application must be made before the student has completed 15 semester hours of graduate work required for the degree.
- 2. During the precandidacy period, the applicant must maintain an overall GPA of 3.0.
- 3. The applicant must have demonstrated satisfactory performance in clinical practicum at West Chester University.

Degree Requirements

- 1. The candidate must meet the general University requirements for the master's degree, including completion of all required courses, with an overall GPA of 3.0.
- 2. The nonthesis candidate must perform satisfactorily on a comprehensive written and oral examination, which may not be taken before the student's final semester of course work. Those who fail the examination may repeat it once. The interval between the two examinations may not exceed one year.
- 3. The thesis candidate does not take the comprehensive examination but is required to participate in an oral defense and provide documentation that she/he has taken the ASHA certification examina-
- 4. The candidate must satisfactorily complete SPP 501, 502, 508, 523, 524, 526, 535, 536, three semester hours of graduate clinical practicum, plus 12 additional semester hours, chosen under advisement, which must include a graduate course in audiology and a graduate course in organic disorders.
- 5. The student must be in continuous enrollment. Exceptions may be granted by submitting a written request to the graduate coordina-
- 6. The M.A. requires the completion of 350 hours of clinical practicum, with a minimum of 250 hours required at the graduate level. These hours of clinical experience must be obtained in three distinctly different clinical settings. In order to earn the required practicum hours, most students will need to register for several semesters of clinical practicum; however, no more than three semester hours of graduate clinical practicum may be counted toward the 39 semester hours required for the degree.

Certification Programs

Candidates for the master of arts in communicative disorders may be recommended for the Certificate of Clinical Competence in Speech Language Pathology issued by the American Speech-Language-Hearing Association. They also may be recommended for the Pennsylvania Instructional 1 Certificate upon satisfactory completion of additional, required course work and clinical practicum.

COURSE DESCRIPTIONS COMMUNICATIVE DISORDERS

Symbol: SPP

501 Foundations of Research in Speech Pathology (3) Introduction to the scientific process and to the interpretation and application of research in the speech sciences. A research project outline required.

502 Experimental Phonetics (3) Study of acoustic and physiological mechanisms underlying speech production and perception. Current theoretical models are reviewed and analytical instrumentation demonstrated. Students are provided with laboratory experiences to complement lecture materials.

508 Neurology of the Speech and Hearing Mechanism (3) This course provides the student with information concerning the neuroanatomical and neurophysiological mechanisms underlying the speech and hearing process.

523 Voice Disorders (3) Examination of classification, etiology, diagnosis, and therapy for functional, organic, and psychological voice disorders.
524 Fluency Disorders (3) Consideration of the nature, causes, diagnosis, and treatment of stuttering and related disorders of speech flow. Critical review of pertinent research.

526 Articulation Disorders (3) Theoretical considerations, research findings, and clinical practices concerning disordered speech sound production.
535 Language Disorders of Children (3) Linguistic and neurological aspects of behavior relative to disorders of language in children.
Review of etiology, assessment, and treatment.

536 Aphasia (3) Study of the behaviors associat-

ed with language disorders in adults. Emphasis on etiologies, symptoms, assessment, and rehabilitative procedures.

543 Therapy for the Hearing Impaired (3) Evaluative and therapeutic materials and methods applicable to the improvement of communication in hard-of-hearing individuals. PREREQ: SPP 546 or equivalent.

546 Aural Rehabilitation (3) Medical, prosthetic, and educational approaches to aural rehabilitation for children and adults.

550 Advanced Diagnostic and Therapeutic Methods in Speech Pathology (3) Current and advanced evaluative methods and materials applicable to the diagnosis and remediation of communication disorders.

• 551 Graduate Clinical Practicum (3)
Supervised practice in the Speech and Hearing
Clinic. Designed to increase diagnostic and therapeutic skills with children and adults who have communication problems.

• 552 Affiliation Practicum (3, 6, 9) Supervised practice in an affiliated clinic or school. Designed to increase diagnostic and therapeutic skills with children and adults who have communication disorders. PREREQ: SPP 551 and permission of the department.

560 Seminar in Speech Pathology (3) Selected theoretical and clinical areas of speech pathology and related disciplines. Topics vary each semester according to research developments and student needs.

561 Seminar in Audiology (3) Selected areas in audiology and related disciplines. Topics vary each semester according to developments in

research and student needs.

569 Clinical Instrumentation (3) Evaluation, selection, use, and maintenance of electronic aids for the speech and hearing clinician. Demonstration of equipment for diagnosis, therapy, and classroom use. Students will have ample opportunity to work with tape recorders, auditory trainers, and special calibration techniques.

570 School Language, Speech and Hearing Programs (3) Orientation to and observation of the organization, administration, and operation of school speech-language and hearing programs (preschool through grade 12).

573 Administration and Supervision of Speech and Hearing Programs (3) Nature and scope of supervisory positions in speech and hearing programs. Emphasis on administrative problems. 580 Orofacial Anomalies (3) Comprehensive consideration of the nature, causes, diagnosis, and treatment of communication disorders associated with orofacial anomalies, particularly cleft lip and cleft palate.

589 Neuromuscular Disorders (3) Nature, causes, diagnosis, and treatment of communication disorders associated with neuromuscular dysfunction, with particular attention to the cerebral palsies.
590 Independent Study (1-3) Individualized research projects, reports, and/or readings in speech pathology or audiology under faculty supervision. PREREQ: Approval of department

chairperson.
598 Workshop in Communicative
Disorders (3)
610 Thesis (1-6)

• This course may be taken again for credit.

Computer Science

404 Anderson Hall West Chester University West Chester, PA 19383 610-436-2204

Dr. Weaver, *Chairperson*Dr. Milito, *Coordinator of Graduate Studies*610-436-2690

PROFESSORS

Richard Epstein, Ph.D., *Temple University*James D. Fabrey, Ph.D., *Massachusetts Institute of Technology*John W. Weaver, Ph.D., *Johns Hopkins University*

ASSOCIATE PROFESSORS

Robert Kline, Ph.D., Washington University Elaine R. Milito, Ph.D., Pennsylvania State University Richard Wyatt, Ph.D., University of California, Berkeley

Programs of Study

The department offers a certificate program for students whose undergraduate degree is not in computer science, and a master of science degree for students who possess an undergraduate degree in computer science or a closely related discipline. Students who complete the certificate program will be awarded a certificate in computer science.

MASTER OF SCIENCE IN COMPUTER SCIENCE

The purpose of this program is to provide its graduates with the intellectual and practical tools that they will need either to pursue careers as professional computer scientists in industry or to pursue a doctor's degree in computer science at a doctoral-granting institution. The curriculum is designed with three goals in mind:

- 1. A solid foundation in the fundamental principles of computer science (the core).
- 2. Exposure to a variety of subject areas (the 500-level electives).
- 3. Exposure to research topics of current interest and to provide indepth knowledge of several areas (the 600-level courses).

The computing platform is UNIX-based workstations, and the programming paradigm is mainly object oriented.

Admission Requirements

Applicants for the master of science program in computer science must satisfy the general graduate admission requirements of the University. Further, applicants should possess an undergraduate degree in computer science or an equivalent degree. An applicant who does not have an undergraduate degree in computer science or the equivalent may, however, apply for admission into the certificate program, which is an 18-credit program designed to give students a broad knowledge of standard topics in computer science. See "Certificate Program" below.

Applicants also must have submitted by the Educational Testing Service (ETS) their verbal, quantitative, and qualitative Graduate Record Examination results (GREs).

A TOEFL score of 550 is required for non-native speakers only. Three letters of recommendation also are required of all applicants.

Degree Requirements

A student must take a total of 33 semester hours from the following courses (subject to the stipulations listed below):

All four core courses (12 semester hours)

CSC 530 Data Structures (3)

CSC 520 Foundations of Computer Science (3)

CSC 540 Programming Languages (3) CSC 560 Analysis of Algorithms (3)

At least four 500-level electives (at least 12 semester hours)

CSC 525 Operating Systems (3)

CSC 535 Networks and Data Communications (3)

CSC 545 Database System Concepts (3)

CSC 555 Software Engineering (3)

CSC 565 Compiler Design (3)

CSC 570 Computer Architecture (3)

CSC 573 Graphics and User Interfaces (3)

CSC 575 Artificial Intelligence (3)

CSC 581 Topics in Computer Science (3)

At least two 600-level courses (at least 6 semester hours)

CSC 600 Advanced Seminar (3) (See stipulation #3 below.)

CSC 610 Thesis 1 (3)

CSC 620 Thesis II (3)

Stipulations:

- 1. A student must complete the four core courses within the first six courses taken.
- 2. All core courses must be completed before a student can take a 600-level course.
- The Advanced Seminar course offers a variety of advanced topics in computer science. Different topics will be listed as different sections of this course. A student must take at least one section and not more than two of these.
- 4. A student who elects to do a master's thesis must take CSC 610 Thesis I and CSC 620 Thesis II.

Thesis Options

Thesis I (CSC 610)

The student may work in one of three directions for this course:

- 1. Master's thesis preparation: After consulting with a faculty adviser, the student will conduct a comprehensive literature search in a research area, write a detailed report on the current state of the art in that area, and develop a thesis proposal.
- Individual project: The student will work on a substantial programming project throughout the semester. The student will be expected to do sufficient background research and then design, as needed, all the data structures, flow of control, and so forth, required for implementation.

3. Team project: The student will be involved in an ambitious software development project with at least one other student under the guidance of the adviser. This course emphasizes the development of those capabilities that are considered especially important in the practical world of computing, such as written and oral communications skills and the ability to work as part of a team.

Thesis II (CSC 620)

The student is to carry out the research proposal developed in Thesis 1. At the completion of the project, the student must submit a bound manuscript that meets the approval of the graduate committee.

CERTIFICATE PROGRAM

This program is designed for students whose undergraduate degree is not in computer science. The certificate program in computer science has two fundamental purposes:

- To serve as a "bridge" between an undergraduate degree in some field other than the discipline of computing and the regular master's degree program in computer science.
- 2. To allow those who wish to study computing at the graduate level, without pursuing a master's degree, to do so.

The program consists of six, three-credit courses offered over two semesters. These graduate-level courses are specifically designed to give students broad knowledge of those topics in computer science that would be known by a college graduate in the field. Students who complete the prerequisite program with a 3.0 GPA or better will receive a certificate in computer science. They also will be entitled to enter the computer science master's degree program.

Admission Requirements

The applicant is expected to have a bachelor's degree from an accredited institution including four semesters of mathematics (Calculus I, II, and two other courses at this level or above), and present GRE scores. Non-native speakers are expected to have a TOEFL score of 550. Three letters of recommendation are required of all applicants.

Curriculum

Fall Semester:

Computer Programming I (CSC 512)
Computer Organization (CSC 514)
Foundations of Computer Science (CSC 220)

Spring Semester:

Computer Programming 11 (CSC 513) Introduction to Data Structures and Algorithms (CSC 516) Programming Paradigms (CSC 517)

COURSE DESCRIPTIONS CERTIFICATE PROGRAM IN COMPUTER SCIENCE

Symbol: CSC

These courses may not be used for credit in the master's degree program.

512 Computer Programming 1 (3) The principles of algorithmic problem solving is introduced using the C++ language. This course teaches programming techniques which involve elementary data and control structures.

513 Computer Programming I1 (3) This course further develops the topics started in Computer Programming I with a strong emphasis on software issues and object-oriented program design. PREREQ: CSC 512.

514 Computer Organization (3) This course introduces students to the hasics of computer hardware design, including digital logic and hardware components. Assembly-level programming is taught as a tool for understanding how it is used by compilers of high-level languages.

516 Introduction to Data Structures and Algorithms (3) This course introduces the definitions, implementations, and applications of the most basic data structures used in computer sci-

ence. The concept of abstract data type is introduced and reinforced by the object concept of C++. PREREQ: CSC 512.

517 Programming Paradigms (3) This course is designed to develop students' understanding of the nature of programming languages and to enhance their programming skills. The approach is more formal than in a beginning course and emphasizes both the general features of languages and sound problem-solving methods. PREREQ: CSC 512.

MASTER'S PROGRAM IN COMPUTER SCIENCE

Symbol: CSC

520 Foundations of Computer Science (3) This course offers an advanced treatment of many of the theoretical areas underlying other computer science subjects. Offered every fall.

525 Operating Systems (3) This course covers the basic features of operating systems. Examples will be drawn from UNIX and other operating systems. This course includes an intensive study of the UNIX operating system by way of the UNIX kernel commands and utilities. Offered in odd-numbered years, alternating between fall and summer.

530 Data Structures (3) This course builds on rudimentary understanding of linked structures and develops complex data structures such as trees, hash tables, graphs, etc. It also introduces the basics of asymptotic analysis of running time and space in order to provide the justification for various data structures. Offered every fall.

535 Networks and Data Communications (3) This course provides in-depth studies of various aspects of modern telecommunication systems such as network design, network implementation, serial port communications, and user interfaces. Offered every fall.

540 Programming Languages (3) This course introduces the theoretical and practical foundations of programming languages from the point of view of design and implementation. Offered every spring.

545 Database System Concepts (3) This course emphasizes recent technological advances in database management systems. The course centers around data models and languages for those data models. Special attention is paid to relational and object-oriented data models and systems which implement these. PREREQ: CSC 520. Offered in spring of even-numbered years.

555 Software Engineering (3) This course

emphasizes important topics in software engineering from an object-oriented point of view (as opposed to the older functional, or structural analysis approach). Offered in fall of even-numbered years.

560 Analysis of Algorithms (3) This course introduces the methods to analyze the efficiency of computer algorithms in terms of their use of both space and time. Algorithmic design techniques, such as divide and conquer, greedy methods, and dynamic programming are illustrated throughout the course. The theory of NP-completeness and tractibility is introduced. PREREQ: CSC 520. Offered every spring. 565 Compiler Design (3) An in-depth study of the principles and design aspects of programming language translation. Students will design and implement a compiler using standard UNIX-based compiler tools for a small but representative language, PREREQ: CSC 520. Offered in spring of even-numbered years.

570 Computer Architecture (3) This course

will study the methodology for design of components and interfaces in a uniprocessor computer. Various architectures machine languages are compared, and one is studied in depth. Offered in spring of odd-numbered years.

573 Graphics and User Interfaces (3) This course covers the basic aspects of generating and transforming computer graphical images. PRE-REQ: Linear algebra background. Offered in summer of even-numbered years.

575 Artificial Intelligence (3) Artificial Intelligence (AI) aims to reproduce or simulate the intelligent capacities of human beings such as forming plans of action and conversing in English. This course will combine theoretical, practical, and programming aspects of AI. Common Lisp will be used for programming projects. PREREQ: CSC 520. Offered in odd-numbered years, alternating between fall and summer. 581 Topics in Computer Science (3) This course will allow instructors to teach a 500-level (not research-oriented) course in a computer sci-

ence topic not specified in the current course list. Different topics will be taught as different sections of this course. PREREQ: To be determined by topic. Offered every year in spring and summer.

600 Advanced Seminar (3) This is a researchoriented course which will involve an investigation into an advanced and specialized topic determined according to faculty and student interest. PREREQ: Completion of 18 graduate credits including the core courses. Offered every year in fall and summer.

6t0 Thesis t (3) The student may work in one of three directions: thesis, individual project, or team project. (See "Thesis Options" above.) PREREQ: The agreement of the faculty member to act as an adviser.

620 Thesis 11 (3) A continuation of Thesis 1. (See "Thesis Options" above.) PREREQ: The permission of the thesis adviser, and approval of the thesis proposal by the computer science graduate committee.

Counseling and Educational Psychology

201 Recitation Hall West Chester University West Chester, PA 19383 610-436-2559

Dr. Gadaleto, Chairperson Dr. Broderick, Assistant Chairperson

PROFESSORS

Deborah S. Brown, Ph.D., University of Delaware Angelo F. Gadaleto, Ph.D., University of Virginia Wallace J. Kahn, Ph.D., University of Maryland Richard D. Parsons, Ph.D., Temple University

ASSOCIATE PROFESSOR

Carol M. Napierkowski, Ph.D., University of Connecticut

ASSISTANT PROFESSORS

Patricia Broderick, Ph.D., *Temple University* Stephanie L. Hinson, Ed.D., *University of Virginia* Lynn Kell Spradlin, Ed.D., *University of Louisville*

Programs of Study

The Department of Counseling and Educational Psychology offers two counselor education degree programs. The first is a degreecertification program that leads to the master of education and Educational Specialist I Certificate for elementary or secondary school counselors. Individuals who have earned a master's degree in a counseling-related area may pursue a nondegree program of study (certification only) leading to the Educational Specialist 1 Certificate for elementary or secondary school counselors. The second degree program leads to a master of science degree for individuals interested in counseling or student personnel services in higher education settings. The master of science degree can be designed to prepare individuals for counseling in community agency or business settings. Master of science candidates have the option of taking additional course work which will qualify them for certification as elementary or secondary school counselors. A handbook describing programs of study in detail can be obtained from the department. The department's Web page can be reached through the University's Home Page: www.wcupa.edu.

Admission Requirements

When admitting an applicant to the counselor education programs, the department makes a commitment to the student's development and

future success. Admission requires an undergraduate degree from an accredited college or university. The normal, expected standard for students applying to the counselor education programs is a 3.0 grade point average (GPA) on a 4.0 scale. However, the department will evaluate each candidate through the use of multiple criteria. In addition to undergraduate grades, candidates may be assessed by way of an interview, the Graduate Record Examination or Miller Analogies Test, and letters of recommendation.

Degree Requirements

After completion of the first 12–15 hours of study, students must apply for degree candidacy and will be evaluated for academic achievement and interpersonal skills. Students must achieve a grade of B or better in all competency area I courses taken to receive department approval for degree candidacy. Following completion of the prescribed work and the adviser's recommendation, candidates must pass a comprehensive examination. The degree being pursued will be granted only when the student has met the standards of the department. Students desiring the M.Ed. degree without certification may take six credits of electives under advisement in lieu of the practica requirements.

Educational Specialist I Certificate

In order to obtain the Educational Specialist 1 Certificate, the student must successfully complete the required practicum in an approved secondary or elementary school. This course provides an opportunity for the student, under West Chester University faculty supervision, to work closely with a professional counselor in a public school. The certificate is issued on the basis of the program approval status of the counselor education program at the University as granted by the Pennsylvania Department of Education.

MASTER OF EDUCATION: ELEMENTARY SCHOOL COUNSELING OPTION (48 semester hours)

Dr. Spradlin, Program Coordinator

Common Core Requirements

27 semester hours

(Common core requirements do not have prerequisites.) Competency Area 1: EDC 503, 567, 570, 571, EDF 502

Competency Area II: EDC 520, 521, 540, 556

Speciality Requirements

15 semester hours

EDC 572, 574, 576, 585, and EDF 510 or 589

Field Experience

6 semester hours

EDC 590 and 593

MASTER OF EDUCATION: SECONDARY SCHOOL COUNSELING OPTION (48 semester hours)

Dr. Napierkowski, Program Coordinator

Common Core Requirements

27 semester hours

(Common core requirements do not have prerequisites.) Competency Area I: EDC 503, 567, 570, 571, EDF 502

Competency Area II: EDC 520, 521, 540, 556

Speciality Requirements

15 semester hours

EDC 573, 575, 576, 585, and EDF 510 or 589

Field Experience EDC 591 and 593 6 semester hours

MASTER OF SCIENCE: HIGHER EDUCATION/POST SECONDARY COUNSELING OPTION (48 semester hours)

Dr. Gadaleto, Program Coordinator

Common Core Requirements

27 semester hours

(Common core requirements do not have prerequisites.) Competency Area I: EDC 503, 567, 570, 571, and EDF 502

Competency Area II: EDC 520, 521, 540, 556

Speciality Requirements

15 semester hours

EDC 530, 578, 579

6 credits of electives (must have approval of adviser)

Field Experience

6 semester hours

EDC 592 and 593

COURSE DESCRIPTIONS COUNSELOR EDUCATION

Symbol: EDC

503 Professional Orientation to Counseling (3) An introductory course designed to examine the philosophical and educational antecedents of the counseling movement in the United States and current trends as well as contemporary issues relating to the delivery of counseling services. Work environments and functions of master-level

counselors will be explored. 520 Counseling for Human Differences (3) This course explores different racial, social class, gender, and ethnic group orientations to counseling and examines exceptionality implications in applying traditional counseling approaches for use with

diverse client populations. 521 Human Development Through the Life Span for Counselors (3) Exploration of cognitive, social, emotional, and physical development over the life span. This course examines both theory and research in human development and applies this knowledge to the practice of counseling.

530 The College Student (3) The course will include an overview of the student services profession. Theories of student development and their application to student services will be examined. Issues of contemporary students will be explored.

540 Assessment Methods in Guidance (3) Emphasis is on the test and nontest assessment of intelligence, achievement, special abilities, and aptitudes, including concepts such as reliability, validity, and standardization.

545 Psychometric Interpretation (3) A survey course involving the use of psychometrics as the vehicle for the diagnosis of learning problems. Test interpretation and reporting are emphasized.

556 Career Development Theories and Practices (3) Theories and techniques relating to career development in children, adolescents, and adults. Career development programming within the context of a systems approach is stressed.

567 Group Dynamics (3) This course in group processes focuses on the identification of the implicit and explicit role functions of the group member and the group leader. The recognition and awareness of one's behavior with multiple feedback sources is of primary concern. The major objective of this course is to initiate, develop, and master relationships in a group setting.

568 The Professional Counselor in the Elementary School (3) Role, responsibilities, and practices of the contemporary elementary school counselor. Development of the guidance program; relationship to curricula; position of the counselor with respect to administration, parents, children, and teachers.

569 The Professional Counselor in the Secondary School (2) Role, responsibilities, and practice of the contemporary secondary school counselor. Referral resources, parental conference techniques, relationship with administration and staff, curricula, and administrative aspects of the guidance program.

570 Fundamentals of the Helping Relationship (3) The course will introduce students to the counseling process. Communications skills essential to the helping relationship will be taught and practiced in a counseling lab.

571 Theories of Counseling (3) The basic theories of counseling, with emphasis on historical and philosophical origins. Historical antecedents of each theory, and evaluation of the potential of each theory as a viable approach for counselors.

572 Counseling Techniques in Elementary School (3) Practical application of basic theories and techniques of individual counseling with children in elementary school settings. The prepracticum course includes actual counseling experience with children. PREREQ: EDC 570

573 Counseling Techniques in Secondary School (3) Practical application of the basic theories and techniques of individual counseling with adolescents in secondary school settings. This prepracticum course includes actual counseling experience with adolescents. PREREQ: EDC 570.

574 Group Procedures in the Elementary School (3) Emphasis is on mastering the basic theories and techniques appropriate to group procedures in the elementary school. Exposure to planning, implementing, and evaluating group activities.

575 Group Procedures in the Secondary School (3) Mastery of theories and techniques basic to planning and implementing group activities in the secondary school. Evaluation of group activities also is stressed.

576 Consultation and Coordination in Guidance and Counseling (3) This prepracticum course focuses on models, mechanisms, and strategies of employing consultation and coordination in remedial and preventive interventions in educational settings. Systems analysis and program development and evaluation will be addressed relative to consultation and coordination.

578 Counseling Techniques with Adult (3) Practical application of basic theories and techniques of individual counseling with adults. The prepracticum course includes actual counseling with adults. PREREQ: EDC 570.

579 Group Procedures with Adults (3) Techniques for planning and implementing group procedures applicable to adults. Topics include group counseling, group guidance, multiple counseling, problem solving and decision making, task group facilitation, conflict mediation, group process and outcome evaluation, and the legal/ethical implications of group work. Each student is required to conduct a group counseling experience. 585 Contemporary Issues and Trends in

Guidance (3) Contemporary issues and current trends in school guidance. The student evaluates basic positions and integrates them into the prospective role of a school counselor.

590 Practicum in Elementary Guidance (3) Supervised practice in an approved elementary school. In addition to work under the direction of a professional counselor in the school setting, the student meets on campus with the practicum supervisor for intensive seminar activities. PREREQ: EDC 572, 574, and 576. EDC 540 and EDC 556 must be taken before or concurrently. Permission of adviser.

591 Practicum in Secondary Guidance (3) Supervised practice in an approved secondary school. The student works under the direction of a professional counselor in the school setting and meets on campus with the practicum supervisor for intensive seminar activities. PREREQ: EDC 573, 575, and 576. EDC 540 and EDC 556 must be taken before or concurrently. Permission of adviser.

592 Practicum in Higher Education Guidance (3) Supervised counseling experiences within the higher education system or another approved setting. A related on-campus seminar is included. PREREQ: EDC 578 and 579, EDC 540 and EDC 556 must be taken before or concurrently. Permission of adviser.

593 Advanced Practicum (3) Intensive supervised counseling experience in an approved setting. The practicum consists of on- and off-campus experiences. PREREQ: EDC 590 or 591 or 592.

598 Workshop in Counselor Education (3) 599 Independent Study (1-3) Independent research and study under the direction of a faculty member. PREREQ: Permission of department chairperson and instructor

EDÜCATIONAL PSYCHOLOGY

Symbol: EDP

550 Advanced Educational Psychology (3) Processes by which skills, understanding, concepts, and ideals are acquired; teaching practices in relation to basic research concerning learning; similarities and differences in theories of learning. 557 Essentials of Learning (3) Study of the

applications of learning theory to classroom teaching, with emphasis on those principles derived from classical and operant conditioning. Retention and transfer of learning also considered.

560 Behavior Modification (3) Study of principles of classical and operant conditioning as they relate to the modification of student behavior in residential and educational settings. Emphasis on such areas as classroom discipline, student values, and student study habits.

569 Adolescent Development and Learning (3) Mental, physical, emotional, and social development and behavior of the adolescent with emphasis on various types of learning. Case studies are used. 598 Workshop in Educational Psychology (3)

Criminal Justice

200 Ruby Jones Hall West Chester University West Chester, PA 19383 610-436-2647

Prof. Nestlerode, Chairperson

Dr. Brewster, Coordinator of Graduate Studies

PROFESSOR

Jana L. Nestlerode, J.D., Widener University

ASSOCIATE PROFESSORS

Harold W. Metz, Ed.D., West Virginia University Mary P. Brewster, Ph.D., Rutgers University

ASSISTANT PROFESSORS

Reginald Nealy, M.H.S., Lincoln University Brian O'Neill, M.S.W., Marywood College

Program of Study

West Chester University offers a master of science degree in criminal justice which is:

- multidisciplinary and flexible (provides thesis and nonthesis options),
- · staffed by experienced professionals,
- · career oriented, and
- · the basis for pursuit of further graduate study.

Admission Requirements

All students must meet the general requirements for admission to a graduate degree program at West Chester University. Applications are processed by the Office of Graduate Studies. Upon receipt of all necessary credentials, Graduate Studies will forward the materials to the Department of Criminal Justice for further consideration and approval. The department places special emphasis on the "Academic and Professional Goals Statement" found within the application, and requires

that all applicants take the MAT Examination. Letters of reference are not necessary.

Degree Requirements

Prior to receiving the master of science degree in criminal justice, all candidates must:

- file an application for admission to candidacy for the degree (must be filed in the Office of Graduate Studies and Sponsored Research after completion of 12 – 15 graduate credits),
- 2. complete a minimum of 36 semester hours of course work with a minimum cumulative GPA of 3.0 (based on a 4.0 system), and
- 3. pass a comprehensive examination or write a thesis.

Curriculum

1. Courses for Nonthesis Track (36 semester hours)

A. Required 15 semester hours CRJ 500 Evolutionary and Comparative Justice

CRJ 505 Nature of Crime and Delinquency CRJ 507 Justice and Professional Ethics

CRJ 508 Research Design and Analysis

CRJ 509 Criminal Jurisprudence

B. Electives
Selected under advisement

21 semester hours

II. Courses for Thesis Track

(36 semester hours)

A. Required 21 semester hours

CRJ 500 Evolutionary and Comparative Justice

CRJ 505 Nature of Crime and Delinquency CRJ 507 Justice and Professional Ethics

CRJ 508 Research Design and Analysis

CRJ 509 Criminal Jurisprudence

CRJ 610 Thesis

B. Electives 15 semester hours Selected under advisement

COURSE DESCRIPTIONS CRIMINAL JUSTICE

Symbol: CRJ

500 Evolutionary and Comparative Justice (3) This course is intended to aid the graduate student in understanding the evolutionary influences on the American criminal justice system. Comparisons with simpler, more peaceful societies will be used to analyze the advancement of law and justice.

503 Criminal Behavior and the Law (3) This course is designed to help the student understand behavior by comparing criminal with normal behavior. A survey course, it reviews types of abnormal behavior and mental disorders, methods of diagnosis, and treatment and resolution of internal personal conflicts. Also included is an understanding of criminal behavior as it applies to abnormality.

504 Resolution of Internal Personal Conflicts (3) This course assists students in developing personal effectiveness in group situations. Emphasis will be on the development of competence in group leadership, ability to translate the group experience into positive decisions about self and environment, and the ability to recognize changes that have affected one's life. The knowledge gained from this course will help students in relating to other persons in their personal, social, and vocational life.

505 Nature of Crime and Delinquency (3) This course is a survey of the historical and contemporary attempts to explain the phenomena of crime

and criminal behavior from the perspectives of sociology, psychology, economics, biology, and law. Emphasis will be placed on contemporary theories and the analysis of evidence supportive of various theoretical positions.

506 Criminal Justice Management (3) This course is intended to aid in the instruction of graduate students who are potential candidates for administrative positions. It brings together the most appropriate concepts from the various approaches and problems to management, e.g., staffing, decision making, motivation, leadership, communications, and control.

507 Justice and Professional Ethics (3) This course is designed to identify and examine ethical issues among practitioners and students in the criminal justice field. Such issues include the discretionary power of arrest, the use of deadly force, the decision to prosecute, participation in plea bargaining, representation of the guilty, and the imposition of punishment.

508 Research Design and Analysis (3) This course is intended to introduce the graduate student to the process of social research. It discusses research concepts such as problem identification, data collection, data analysis, hypothesis testing, and the development of conclusions and recommendations.

509 Criminal Jurisprudence (3) This course examines the complex concepts and principles of criminal law and procedure. The foundations of these disciplines will be initially reviewed, followed by a more comprehensive and incisive analysis and investigation of the difficult issues

which have evolved through decisions of the United States Supreme Court. Supreme Court jurisprudence is examined and contrasted with the jurisprudence of the Pennsylvania courts.

522 Occupational Crime (3) This course analyzes the usually nonviolent criminal conduct variously described as white-collar crime, official corruption, systematic crime, corporate crime, or violations of trust that are characterized by calculation, deceit, and personal enrichment in one's job or profession. The influence of organized crime also is explored.

524 Juvenile Law (3) This course will bring together the leading cases that have reached the Supreme Court, as well as other important federal and state court decisions relating to the juvenile justice process.

526 Policing in America (3) This course is designed to examine current policing strategies and political issues that have developed as a result of those strategies. It also will explore the future of policing in America and will present several interdisciplinary approaches to new theoretical perspectives.

530 Interviewing and Counseling Techniques in Criminal Justice (3) In this course, techniques of counseling applicable to law enforcement and corrections officers are explored. Areas of study include the initial interview, interrogation, handling the informer, manipulative behavior of offenders, report writing, and the exit interview. Role playing and sociodrama are used.

535 Assessment Methods in Criminal Justice (3) This course will develop one's ability to

understand, recognize, describe, and interpret psychometric measures associated with juvenile and adult offenders. The student will develop an understanding of the use of tests in the criminal justice field

555 Topical Seminar in Criminal Justice (3) This course will provide an intensive examination of a selected area of study in the field of criminal justice. Topics will be announced at the time of offering. This course may be taken more than once when different topics are presented.

560 Applied Legal Studies (3) This course presumes a sophisticated working knowledge of criminal law and procedure (successful completion of CRJ 509). The course will examine selected factual accounts of criminal law and process. Through critical examination and analysis of these cases, the student will be able to understand the practical realities of the criminal justice sys-

tem, and to compare theory and philosophy with practice.

566 Contemporary Issues in Corrections (3) This course is designed to analyze contemporary issues in the area of corrections. Such issues will include flat-time sentencing, private corrections, diversion, prison industries, inmate unions, and the elimination of parole.

570 Women, Elderly, and Crime (3) This course is intended to introduce graduate students to the specific problems and conditions associated with female and elderly crime and victimization. The course will focus on the criminology, the law, and the response of the criminal justice system to the uniqueness of women and the elderly. 582 Controversial Criminal Jurisprudence (3)

582 Controversial Criminal Jurisprudence (3) This course presumes a sophisticated working knowledge of criminal law and procedure (successful completion of CRJ 509). It provides an in-

depth analysis of the Supreme Court's historical and contemporary approach to the most controversial issues of criminal law and procedure. The perspectives and arguments will be examined through the study and analysis of U.S. Supreme Court cases.

590 Practicum (1-6) A field experience (internship) program for preservice students only.599 Independent Studies in Criminal Justice

(1-3) This course will entail research projects, reports, and readings in criminal justice. Approval of the department chairperson is required.

610 Thesis (6) Bound and shelved in the library, the thesis represents the student's ability to plan, organize, and direct a research effort designed to discover, develop, or verify knowledge. Only for those students taking the thesis track.

999 Transfer Credits (1-6)

Early Childhood and Special Education

309 Recitation Hall West Chester University West Chester, PA 19383 610-436-2579

Dr. Finkel, Chairperson

Dr. Zlotowski, Coordinator of Graduate Studies

ASSOCIATE PROFESSORS

Judith S. Finkel, Ph.D., *Union Graduate School*Mary Ann O. Maggitti, Ph.D., *Temple University*Catherine M. Prudhoe, Ph.D., *University of Delaware*Martin Zlotowski, Ph.D., *Michigan State University*

ASSISTANT PROFESSORS

George P. Drake, Jr., Ph.D., University of Virginia Kevin A. Koury, Ed.D., West Virginia University Vicki A. McGinley, Ph.D., Temple University Terrie Ozelis, Ed.D., Northern Illinois University

Programs of Study

The Department of Early Childhood and Special Education offers programs leading to the master of education in special education. The department also offers a program leading to certification in special education.

THE MASTER OF EDUCATION PROGRAM ALONE DOES NOT LEAD TO LEVEL I CERTIFICATION IN SPECIAL EDUCATION.

MASTER OF EDUCATION IN SPECIAL EDUCATION

Admission Requirements

All candidates must meet the general requirements for admission to a degree program at West Chester University, listed under Admission. The Department of Special Education requires a minimum 2.50 undergraduate GPA and a 2.75 in the candidate's major field. All applicants must have a personal interview.

Under special circumstances applicants who do not meet the minimum University GPA requirement but who satisfy two of the following three conditions may be eligible for admission:

- bachelor's degree must have been received 10 years or more prior to date of application;
- Miller Analogies Test score must be at or above the 50th percentile;
 must have an exemplary work experience record.

Applicants who satisfy any two of the above three conditions will be interviewed by a faculty committee, consisting of at least two faculty.

The committee will make the admission decision based upon the outcome of the interview.

Degree Requirements

- The student must apply to be admitted to candidacy after the completion of 12 semester hours of work at West Chester University, including EDF 510 and two courses from the special education program, one of which must be EDA 541. Grade point averages (GPAs) must be consistent with standards required in graduate studies at West Chester University (minimum cumulative GPA of 3.0).
- 2. The student must pass a comprehensive examination after the completion of a minimum of 24 semester hours of work or a maximum of 30 semester hours. The student must file a written request with both the chairperson and the graduate coordinator to take the examination. The request should be filed no later than six weeks prior to the date of the examination. The examination may be taken twice, but a semester interval is required between failure and re-examination. A student who fails the examination twice must obtain approval of the department to take it a third and final time.
- 3. The student must complete all degree requirements with a minimum cumulative GPA of 3.0.

MASTER OF EDUCATION IN SPECIAL EDUCATION

Program Description

The program is offered on a thesis or nonthesis basis:

Option A: (30 semester hours plus thesis)

The student will complete nine hours in Area I, 12 hours in Area II, nine hours in Area III, and EDA 591.

Option B: (36 semester hours)

The student will complete nine hours in Area I, 15 hours in Area II, and 12 hours in Area III.

Area I — Professional Education

EDF 500 Methods and Materials of Research in Education (3) or

EDF 501 Methods and Materials of Research for Elementary Education (3)

EDF 510 Educational Foundations (3)

EDP 550 Advanced Educational Psychology (3)

Area II - Special Education

EDA 501 Instructional Strategies (3)

EDA 541 Characteristics of Individuals with Disabilities (3)

EDA 573 Developmental Assessment of Children with Learning Disabilities (3)

EDA 580 Contemporary Issues and Trends (3)

EDA 581 Practicum: Special Education (3) (required in Option B)

EDA 591 Thesis and Research (6) (required in Option A)

Area III — Concentration

Students will select an area of concentration under advisement. The concentration will consist of approved courses from one of the following areas:

The Arts Communicative Disorders Counseling Criminal Justice Educational Research **Elementary Education** Health Education

Physical Education Psychology Reading Secondary Education Special Education Student-Designed Concentration

COURSE DESCRIPTIONS SPECIAL EDUCATION

Symbol: EDA

The following courses may be taken as electives by anyone in a graduate program, subject to approval from the department and the student's chairperson.

500 Inclusive Classrooms (3) Designed to acquaint classroom teachers with special education students who may be spending some portion of the day in a regular setting. Current regulations and ways of meeting educational needs will be reviewed.

501 Instructional Strategies (3) An attempt to guide the teacher to an awareness of the methods by which medical, psychological, behavioral, and academic diagnosis may be converted into relevant educational terms, providing for adequate follow through on specific recommendations. PREREQ:

541 Characteristics of Individuals with Disabilities (Psychology of Exceptional Children) (3) Psychology of children whose intellectual, physical, social, and/or emotional characteristics are significantly deviant from those of children whose needs are met through normal educational routes. 544 Classroom Management (3) Exploration of current practices in the management and modification of behavior. The professional's role in achieving a better basis for meaningful communication with the special child. Problems that may interfere with teacher effectiveness are discussed. PRE-

REQ: EDA 541 or equivalent.

550 Special Topics (1-3) An in-depth study of selected special education topics relevant for professionals' academic growth.

573 Developmental Assessment of Children with Learning Disabilities (3) Diagnostic procedures and subsequent educational prescriptions useful with students experiencing learning difficulties. PREREQ: EDA 541 or equivalent.

580 Contemporary Issues and Trends (3) Current trends, problems, and issues in special education, teacher education, research, and administration will be explored. Emerging concepts relating to special education will be emphasized. PREREQ: EDA 541 or equivalent.

581 Practicum: Special Education (3) Offers students an opportunity to put skills gained through course work into practice under supervision from the department. Weekly seminar required. PREREQ: EDA 541 or equivalent.

590 Independent Study (1-3)

591 Thesis and Research (6) This course will provide the student the opportunity to learn how to evaluate and interpret published research, to conduct a critical research review, and to develop and produce an original research paper. Offered on a two-semester basis with each part carrying three credits. PREREQ: EDF 500.

COURSE DESCRIPTIONS EARLY CHILDHOOD Symbol: EDE

502 Introduction to Early Childhood

Education (3) A basic course in early childhood education. Emphasis is on the historical and theoretical bases influencing education of young chil-

503 Contemporary Influences in Early Childhood Education (3) Current factors that affect the educational needs of young children and classroom practices reflecting those influences. 504 Early Childhood Programs (3) Model programs in early childhood education, focusing on curriculum design and implementation in the

preschool and primary years.

505 Seminar in Early Childhood Education (3) Selected problems in early childhood education. PREREQ: Permission of instructor.

506 Infant and Toddler Development and Environment (3) Physical, social, emotional, and intellectual development of the child newborn to two years is studied. The use of developmental tests for the diagnosis of infant and toddler needs is related to the structuring of an appropriate learning environment.

507 Preschooling Learning Environment (3) Methods and materials, developmentally appropriate for children 2-5, are presented. Readiness assessments, curricular discussions, and teaching approaches are addressed across the full spectrum of child development.

ECE 598 Workshop in Early Childhood Education (3)

Earth Science—See Geology and Astronomy **Economics—See Business**

Elementary Education

105C Recitation Hall West Chester University West Chester, PA 19383 610-436-2944

Dr. Baloche, Chairperson

Dr. Slostad, Graduate Coordinator for Elementary Education **Programs**

PROFESSORS

Lynda Baloche, Ed.D., Temple University George W. Maxim, Ph.D., Pennsylvania State University Carol A. Radich, Ph.D., University of Maryland

ASSOCIATE PROFESSORS

Gail Bollin, Ph.D., University of Delaware David F. Brown, Ed.D., University of Tennessee Martha Drobnak, Ed.D., Nova University James Egan, Ed.D., Syracuse University

ASSISTANT PROFESSORS

Wei Wei Cai, Ed.D., Indiana University Frances Slostad, Ed.D., Immaculata College

Programs of Study

The Department of Elementary Education offers graduate programs in the following programs of study: certification in elementary education; a master of education in elementary education; and a certificate of advanced graduate study. Courses are available to teachers desiring permanent Pennsylvania elementary certification. On June 1, 1987, the Pennsylvania State Board of Education implemented revisions to the Pennsylvania School Code. These revisions require all students who apply for Pennsylvania teaching certificates to pass state competency tests in basic skills, general knowledge, professional knowledge, and specific knowledge of the subjects in which they seek teacher certification. Students also must demonstrate that they have met the requirement for computer literacy. As changes are made in requirements for elementary certification, it is the student's responsibility to satisfy the new requirements.

After the student's application has been submitted to West Chester University's Office of Graduate Studies and Sponsored Research and appropriate transcripts have been received, the student will be mailed information regarding the program and advisement.

Elementary Education

Through programs in elementary education, the department offers the master of education degree in elementary education, as well as nondegree programs for teachers seeking professional growth and/or credit certification.

Admission Requirements

- Applicants to both the degree and the certification programs are expected to have an undergraduate degree from an accredited college or university. In addition, they must meet an undergraduate grade point average (GPA) entry requirement of 3.0 on a scale of 4.0.
 Applicants who cannot meet this requirement must take either the Miller Analogy Test (MAT) or the Graduate Record Examination (GRE). A satisfactory score, as determined by the department on the GRE (verbal and quantitative sections) or MAT, will demonstrate a student's academic competence in lieu of the required GPA. Applicants to the degree program must possess initial teacher's certification.
- 2. Within the precandidacy period (the first 12-15 semester hours), the applicant must:
 - a. Complete EDF 500 (or 501, 502) and two EDE courses.
 - b. Maintain a cumulative GPA of 3.0.

Please refer also to "Degree Candidacy and Degree Requirements" under "Academic Information and Requirements."

- 3. Students applying for the certification program should be aware that a limited number of spaces are available in the program. Some students who meet the minimum requirements may not be admitted due to this space limitation.
- 4. To maintain active graduate status, students enrolled in the initial elementary education teaching certification program are required to maintain continuous enrollment in the graduate program by registering for GSR 799 during any semesters they do not register for courses. If students register for undergraduate courses only during any semester, they must also register for GSR 799 to maintain active graduate status. GSR 799 is not a course and, therefore, does not incur any cost to students.

Degree Requirements

- Satisfactory completion of the curriculum as given below. Both
 the selection and the sequence of courses should be determined in
 consultation with the appointed adviser. Only six credits of workshops are permitted.
- A cumulative GPA of at least 3.0. (NOTE: All courses specific to elementary education are included in computing the GPA in elementary education. Examples of such courses are ENG 592 and MTE 554.)
- 3. Satisfactory performance on the comprehensive examination.

The Comprehensive Examination

In order to become eligible for the examination, the student must:

- Be a degree candidate.
- 2. Complete at least 27 semester hours, including all required courses, by the end of the semester preceding the examination.
- 3. Maintain an average GPA of 3.0.

The examination is given on the first Saturday in February, the first Saturday in October, and the last Saturday in June, unless otherwise announced by the department.

Applications for admission to the comprehensive examination are available from the department and must be filed by July 10 for the October examination, December 1 for the February examination, and May 1 for the June examination. A candidate who fails the comprehensive examination is permitted to take one re-examination within a two-year period. Failure of the re-examination will result in a comprehensive review of the student's graduate record, followed by a determination of the candidate's future status by the departmental graduate committee.

MASTER OF EDUCATION IN ELEMENTARY EDUCATION

This may consist of either a nonthesis program requiring 33 semester hours, or a thesis program requiring 30 semester hours.

In either option, the candidate must meet a professional education requirement, including EDF 500 (or EDF 501 or EDF 502), EDF 510 or EDF 589, and EDP 550. Also required in either option is an elementary education area consisting of EDE 548, 549, 553, and an elective in reading or elementary education. Successful completion of the comprehensive exam is a requirement for both the nonthesis and thesis programs. During the first session of enrollment, the student confers with an assigned adviser to determine an appropriate and desirable area of concentration. The remainder of the program will be developed within the selected concentration. The choice of concentrations may be made from areas offered by the Department of Elementary Education or areas offered by other departments.

To ensure active graduate status, students admitted to the M.Ed. program are required to maintain continuous enrollment by registering for GSR 799 during any semesters they do not register for courses. GSR 799 is not a course and, therefore, does not incur any cost to students.

Nonthesis Program (33 semester hours)

. Professional Education

9 semester hours

EDF 500 Methods and Materials of Research in Education (or EDF 501, 502) (3)

EDF 510 Educational Foundations (3) or

EDF 589 Sociological Foundations of Education (3)

EDP 550 Advanced Educational Psychology (3)

II. Elementary Education

12 semester hours

EDE 548 Curriculum Theory and Trends in Elementary Education (3)

EDE 549 Theory and Trends in the Language Arts (3)

EDE 553 Child Development and Behavior II (3)

(These three courses should be taken after completion of 15 hours of course work.)

Elective in Reading and/or Elementary Education (3)

III. Area of Concentration

12 semester hours

The 21 credit hours above are required of all degree candidates. The remaining 12 credits are to be concentrated in one of the following areas, to be selected under advisement during the first session of enrollment:

Courses offered within the department. Advising by assigned adviser.

Creative Teaching-Learning Language Arts
Elementary Education (General) Reading

Human Development

Courses offered in other departments. Advisement for area of concentration by selected faculty in respective department.

Bilingual Education Science

Children's Literature Special Education

Early Childhood Education Writing

Mathematics

Thesis Program (30 semester hours)

Students who wish to pursue the thesis program must consult with the graduate coordinator, or his or her designee, not later than the second session of enrollment.

Certificate of Advanced Graduate Study (CAGS)

The certificate of advanced graduate study (CAGS) is designed for students who already possess a master's degree and who want to expand their knowledge in a given area, or to broaden it to include other areas. Such students normally do not wish to undertake a doctoral program but, at the same time, prefer the guidance and structure offered by a program such as the CAGS.

Admission Requirements

A student who wishes to pursue the CAGS must:

- 1. Possess a master's degree from an accredited institution.
- 2. Have attained a minimum grade point average (GPA) of 3.0 in a master's degree program.
- 3. Present three professional letters of recommendation.

Acceptance for study toward the CAGS will be determined by the faculty of the Department of Elementary Education. However, prior to formal admission to the program, the student is required to develop a proposed plan of study with the supervising committee (consisting

of the major adviser and one additional member) that has been appointed by the department chairperson or a designee.

Program of Study

A minimum of 30 semester hours earned beyond the master's degree is required. Students accepted into the program will pursue a plan of study to meet their individual needs. Plans will be developed with the major adviser and be approved by the student's supervising committee. Previous course work taken will be considered in the development of the student's program. Also, the suggested program will be presented to the departmental graduate committee for approval. Course work may be arranged as follows:

Area of Specialization
 (Examples: Early Childhood Education, Elementary Education—
 General, Language Arts, Mathematics, Reading, Science, Social
 Studies, Gifted Education)
 Programs will be individually tailored for each student by an adviser.

2. Course Work in Complementary Areas

0-6 semester hours

3. Seminar in Research

3 semester hours

4. Research Report

3 semester hours

Transfer Credits

A maximum of six hours of approved transfer credit earned after the master's degree may be applied to the proposed program if the courses complement the area of specialization and if the credits were earned within a period of three years before entering this program.

Certificate of Approval

Successful completion of the program requires that the student:

- 1. Achieves a minimum GPA of 3.25 in all course work in the area of specialization and a minimum GPA of 3.0 in all course work taken outside the School of Education.
- Successfully passes an oral examination in the area of specialization, as well as completes a research report. All requirements, including the research report, must be completed before the student will be allowed to take the oral examination.
- 3. Meets all program requirements.
- Completes the program within six years following the date of the first enrollment.

COURSE DESCRIPTIONS ELEMENTARY EDUCATION

Symbol: EDE

522 Teaching the Communication Skills
(3) Strategies for teaching the language arts.

Methods, materials, and resources for organizing creative programs in school settings.

530 Social Studies in Elementary Education (3) Interdisciplinary and multicultural strategies for developing concepts, skills, and values in the social studies program.

543 Creative Expression in the Elementary School (3) Theories and techniques to promote creative thinking and enhance children's creative potential in all areas of the school curriculum.

548 Curriculum Theory and Trends in Elementary Education (3) Theoretical frameworks of elementary school curricula; curriculum development and change. To be taken after 15 hours of work.

549 Theory and Trends in the Language Arts (3) Analysis and evaluation of language arts programs, including reading in the modern elementary school. PREREQ: EDE 548.

551 Child and Adolescent Behavior I (3) Social, intellectual, emotional, physical, and moral aspects of child and adolescent behavior. Emphasis on personal development of the teacher as a prerequisite to understanding children in the elementary school.

552 The Middle School Child (3) Development, behavior, and specific needs during late childhood and early adolescence (10-15 years); applies to working with children in the middle school. PRE-REQ: Recent course in child/human development.

553 Child and Adolescent Behavior II (3)
Review of principles of growth and development.
Theories of personality development; clues to
identifying children with problems; therapies
applicable to elementary and adolescent school
children. Case study may be required.
PREREQ: A recent course in child development
and completion of 15 hours of course work.

555 Self Development and Interpersonal Skills (3) Self development, interpersonal, and group communication skills. Focus on helping relationships in educational settings. PREREQ: Recent course in human development or the equivalent.

557 The Foundations of Cooperative Learning (3) Exploration of various theories, models, and strategies for cooperative learning, with a focus on the implementation of the Johnson and Johnson model of cooperative learning into all areas of the school curriculum.

560 Meeting Individual Needs of Children (3) Discovering each child's needs; providing for individualized learning; identifying problems and their solutions. PREREQ: Recent course work in elementary education and child development.

562 Integrating Thinking Skills into the

Curriculum (3) Provides the rationale and theory base for including thinking skills in instructional strategies. Opportunities to apply thinking strategies to curricula are provided through models of teaching.

565 Effective Classroom Management (3) Dynamics of interpersonal relations in planning and facilitating classroom instruction.

570 Supervision in the Elementary School (3) Concepts and practices in supervision of teachers, student teachers, and aides. PREREQ: Course work in elementary education and child development.

580-589 Workshops in Elementary Education (1-6) Additional course numbers will be assigned as new areas of study are announced. Credits vary.

The series presently includes:

580 Workshop in Elementary Education

583 Workshop in Creativity

585 Workshop in Language Arts

586 Workshop in Curriculum Enrichment

588 Workshop in Gifted and Talented

589 Workshop in Humanizing Teaching and Learning

590 Independent Study (1) Enrollment by permission only; number of credits determined by instructor.

598 Workshop in Elementary Education (3)

600 Research Report (1-2)

610 Thesis (4-6)

English

541/531 Main Hall West Chester University West Chester, PA 19383 610-436-2745/436-2822 Dr. Sabol, *Chairperson*

Dr. Newcomb, Coordinator of Graduate Studies

PROFESSORS

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Paul D. Green, Ph.D., Harvard University
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ASSISTANT PROFESSORS

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William B. Lalicker, Ph.D., University of Washington
Patricia A. Pflieger, Ph.D., University of Minnesota
Christopher J. Teutsch, Ph.D., University of Wisconsin-Milwaukee
Victoria Tischio, Ph.D., State University of New York – Albany
Carla Verderame, Ph.D., University of Michigan

Program of Study

The Department of English offers the master of arts in English. The master of arts permits the student to attain a number of goals. It furthers scholarship and learning in literature, language, and writing, providing the student with experience in critical reading and writing skills; the M.A. may be a preface to doctoral study or provide a foundation for teaching in high schools, community, or junior colleges. The Department of English also participates in an interdisciplinary program leading to the master of arts in teaching English as a second language. (See the section "Teaching English as a Second Language," pages 89–90.)

In addition, the Department of English welcomes students who wish to take courses for professional growth and provides assistance and advice to post-baccalaureate students wishing to acquire secondary teaching certification in English.

Admission Requirements

The applicant to the M.A. program in English must (1) meet the general requirements for admission to degree study at West Chester University (see appropriate pages at the beginning of the Graduate Catalog); (2) submit a 5-6 page writing sample discussing a piece of literature (not creative works, news releases, or journalistic reports): (3) submit results of the General Aptitude Test of the Graduate Record Exam; (4) satisfy other departmental admission requirements established in consultation with the graduate coordinator; (5) take additional graduate and/or undergraduate courses when considered necessary. Normally, applicants who do not have a strong undergraduate record in English literature may be expected to take additional courses for full admission into the M.A. program in English. The applicant seeking secondary English certification only must apply through the Office of Graduate Studies to the Department of Professional and Secondary Education and must have the transcripts evaluated by both the School of Education and the Department of English. The general requirements for admission include items (1) and (2) listed under "Admission Requirements for Degree Students" found at the beginning of the Graduate Catalog.

MASTER OF ARTS IN ENGLISH

Both a thesis and a nonthesis option are available.

THESIS OPTION

(33–36 semester hours)

Required 9–12 semester hours ENG 500 and ENG 501 (or ENG 504 and ENG 501 for the creative writing concentration) are to be taken before the completion of 12 semester hours of graduate credit. (6)

ENG 620 M.A. Essay (about 40 pages) to be completed at the end of course work under the direction of an adviser *selected in consultation*

with the graduate coordinator. An oral defense of this essay also will be required. (3–6)

Course Selection

24 semester hours

In addition to ENG 500 or 504, 501, and 620, all students will take eight courses selected in consultation with the graduate coordinator according to the following plan:

- 1. At least one course in British literature before 1660 (3)
- 2. At least one course in British or American literature (including African-American) between 1660 and 1900 (3)
- 3. At least one course in British or American literature (including African-American) between 1900 and 2000 (3)
- 4. At least one course in noncanonical literatures, including comparative literature, women's literature, African-American literature, Native-American literature, and other literatures representing cultural diversity (3)
- 5. Four electives (12)

Total hours required

33-36 semester hours

Creative Writing Concentration (within thesis option)

(33–36 semester hours)

Required

9–12 semester hours

ENG 501 and ENG 504 are required. (6)

ENG 620 M.A. Essay is a portfolio of original fiction or poetry. (3–6)

Course Selection

24 semester hours

Four literature courses chosen from four different areas (12)
 Four courses chosen from among poetry and fiction workshops (12)

Total hours required

33–36 semester hours

NONTHESIS OPTION

(36 semester hours)

Required

6 semester hours

ENG 500 and ENG 501 are to be taken before the completion of 12 semester hours of graduate credit. (6)

Course Selection

30 semester hours

In addition to ENG 500 and 501, all students will select ten courses in consultation with the graduate coordinator according to the following plan:

- 1. At least one course in literature before 1500 (3)
- 2. At least one course in literature between 1500 and 1660 (3)
- 3. At least one course in literature between 1660 and 1800 (3)
- 4. At least one course in British or American literature between 1800 and 1900 (3)
- At least one course in British or American literature between 1900 and 2000 (3)
- 6. Five electives (15)

Additional requirements

- At least one course must be taken in American literature (including African-American and Native-American)
- At least two courses must be in noncanonical topics (that is, material, literature, and culture not traditionally regarded as representing mainstream or "high" culture).

Total hours required

36 semester hours

In both the thesis and nonthesis options, one course may be a compatible course taken in another department. For more information concerning graduate work in English, including course listings, see the *Handbook for Graduate English Studies* and *Guidelines for Completing the M.A. Essay*, available from the English graduate coordinator; call 610-436-2745 for an appointment.

SECONDARY ENGLISH CERTIFICATION OPTION

Post-baccalaureate students seeking certification in secondary English must meet the equivalencies of an undergraduate secondary education major in English. Generally, the following courses are required by the Department of English for certification. (See the Department of Professional and Secondary Education for its requirements.) The Department of English normally accepts equivalent courses from colleges or universities accredited in the United States or their equivalent from schools in other countries. Contact the English graduate coordinator for an evaluation of transcripts from other accredited schools.

Required

Two writing courses:

- 1. ENG 120 Effective Writing I (or the equivalent)
- 2. ENG 121 Effective Writing II (or the equivalent)

Two linguistics courses:

- 3. ENG 230 Introduction to Linguistics (or ENG 330, LIN 501, LIN/LAN 503, or LIN 512)
- 4. ENG 331 Structure of Modern English (or ENG 575, L1N 504, 505)

Two methods courses:

- ENG 390 Teaching English in the Secondary School (PREREQ: EDM 300, EDP 351, EDS 306, and ENG 230 and 331
- 6. ENG 392: Writing and Teaching Writing in Secondary English Nine advanced literature courses ("advanced" means courses determined to be upper-level undergraduate or graduate courses. At West Chester the courses that qualify are numbered in the 300s, 400s, 500s, or 600s.)

- 7. A literary theory course
- 8. A medieval British course
- 9. A 16th/17th-century British course
- 10. A Restoration/18th-century British course
- 11. A 19th-century British course
- 12. A 20th-century British course
- 13. A pre-20th-century American course
- 14. A 20th-century American course
- 15. L1T 398: Young Adult Literature

All certification students must submit a writing protfolio and pass the test of writing competency to qualify for student teaching.

For more information concerning secondary English certification for post-baccalaureate students, contact the Department of English graduate coordinator.

COURSE DESCRIPTIONS ENGLISH

Symbol: ENG

GENERAL TOPICS AND THEORY

500 Introduction to the Profession (3) An introduction to the methods and materials of research used by scholars of English and American literature. An introduction to current issues and debates in the profession and to the history of the profession.

501 Literary Theory (3) Study of various methods of literary theory and analysis; the application of these methods to specific works of literature.
502 History of Criticism (3) A historical study.

502 History of Criticism (3) A historical study of literary criticism and aesthetic theory from Plato and Aristotle to the present.

503 Feminist Literary Criticism (3) A study of the development of feminist criticism and different schools of feminist literary theory. Application of feminist theory to specific texts.

507 Literature Seminar (3) Variable topics announced each time the course is offered.

ENGLISH LITERATURE

517 Beowulf (3) An analysis of the full poem in Old English. Emphasis on the artistic, linguistic, and historic values. PREREQ: ENG 584 or equivalent.
518 Chaucer (3) A study of the Canterbury Tales and Troilus and Criseyde.

519 16th-Century Poetry and Prose (3) A survey of the major poetry and prose written in England during the Tudor period from Skelton to Shakespeare.

520 Spenser and Milton (3) The major works of Spenser and Milton studied in relation to the intellectual climate of the Renaissance. Emphasis on *The Faerie Queene* and *Paradise Lost*.

521 Major Renaissance Writers (3) An in-depth study of major figures in the Renaissance. Intellectual background and literary influences. Variable topics.

522 English Drama to 1642 (3) A survey of English drama (exclusive of Shakespeare) from its medieval beginnings to the closing of the theatres in 1642.

523 Shakespeare's Sisters (3) Poetry, prose, and drama by Renaissance women writers. Includes Elizabeth I, Mary Wroth, Elizabeth Cary, Amelia Lanier, Katherine Philips, Bathsua Makin, and others. Topics addressed include women's education, attacks on and defenses of womankind, love poetry by men and women, heroic women, and "a woman's place." 525 Shakespeare's Tragedies and Histories (3) Histories and tragedies read with analysis of dramatic and poetic effects.

526 Shakespeare's Comedies and

Poems (3) The comedies analyzed. The poems read in relation to Shakespeare's developing dra-

matic and poetic power.

527 17th-Century Poetry and Prose (3) An in-depth study of the major poets and prose writers from Donne to Milton.

529 18th-Century Poetry and Prose (3) A study of the literature of the era, with emphasis on the cultural context, aesthetic theory, and the evolution of poetic techniques.

530 Restoration and 18th-Century Drama (3) Critical history of the British drama from the reopening of the theatres to Sheridan, Major playwrights and study of theatre history.

531 18th-Century British Novel (3) A study of the rise of the novel and its development in the 18th century. Defoe, Richardson, Fielding, Smollett, and Sterne.

533 Romantic Poetry and Prose (3) The poetry and prose of the early 19th century with emphasis on the five major poets (Wordsworth, Coleridge, Byron, Shelley, and Keats) and three major essayists (Lamb, Hazlitt, and De Quincey).

534 Victorian Puetry (3) A study of Tennyson, Browning, Arnold, Hopkins, Swinburne, and Hardy. 535 Culture and Society in the 19th Century (3) A study of Victorian literature against its social and intellectual background.

536 19th-Century British Novel (3) The British novel from Scott to Hardy.

537 20th-Century British Novel (3) A study of the British novel from 1914 to the present. Among the novelists to be studied are Conrad, Ford, Forster, Lawrence, Woolf, Waugh, Green, Murdoch, Spark, and Golding.

538 20th-Century British Poetry (3) A comprehensive study of the major British poets from 1890 to the present: Dowson, Housman, Hardy. Owen, Yeats, Eliot, Thomas, Lawrence, and Auden.

539 Major 20th-Century Irish Writers (3) A comprehensive study of significant Irish writers of the 20th century: Yeats, Joyce, O'Casey, Synge, O'Connor, O'Faolain, Beckett, and Shaw.

540 Joyce and Beckett (3) Detailed critical analysis of Joyce's *Dubliners, A Portrait of the Artist as a Young Man, Exiles,* and *Ulysses*; Beckett's drama and novels.

541 20th-Century Drama (3) Principal British and American playwrights from Shaw to Pinter and Albee.

• 544 Seminar in English Literature (3) Topic announced when offered.

545 Medieval Women's Culture (3) This course studies writings by medieval women and their contribution to the development of medieval culture.

AMERICAN LITERATURE

• 547 American Literary Movements (3) Major movements in the development of American litera-

ture. Influence of leading writers on literary concepts, trends, and critical dicta. Topics announced when offered.

548 Hawthorne and Melville (3) A study of their works and representative literary criticism.

549 Twain and James (3) A study of their works and representative literary criticism.

551 Hemingway and Faulkner (3) The works of Hemingway and Faulkner and the literary relationship of these works.

557 Major 20th-Century American Poets (3) A close study of several major, modern American poets.

558 20th-Century American Writers (3) Major writers and literary movements from 1900 to the present. Topics announced when offered.

562 Modern African-American Literature (3)
An intensive study in themes and trends in modern
African-American literature.

563 African-American Women Writers in America (3) Writings from the Colonial period to the present. A survey of the forms of expression used by these writers and the themes of gender, race, and class that challenge and redefine the image of women in an American and African-American context.

• 564 Seminar in American Literature (3) Variable topics announced when offered.

COMPARATIVE LITERATURE

• 565 Comparative Literature Seminar (3) Studies in international, literary, and/or cultural relations; the characteristics and relationships of literary themes, types, and genres. Topics announced when offered.

566 Comparative Literature: The Greek Myths (3) The role of Greek myths and their treatment in Western literature.

568 20th-Century Women Poets (3) The study of a significant number of modern women poets from Amy Lowell to Dianc Wakoski. Discussion of commentary by women poets about the experience of writing poetry. Although the emphasis is on English and American poets, representatives from other cultures will be included.

571 Calonialism and the 20th-Century Novel (3) An examination of the relationship of the colonialist theme and modernist techniques in the novel.

LANGUAGE

575 Structure of Modern English (3) A detailed analysis of the modern descriptive approach to the study of English grammar and how it compares with the traditional approach.

576 Curriculum and Materials for TESL (3)
Application of second language learning principles

• This course may be taken again for credit.

for the analysis, development, and implementation of ESL materials, learner assessment instruments, and curriculum.

577 History of the English Language (3) Review of the major influences on the development of the English language. PREREQ: LIN 501 or LIN 503. 578 Modern English (3) A study of the development of the English language from 1450 to the present (exclusive of American English).

579 Studies in American English (3) Historical processes in the development of American and British English. Regional and social dialects of American English. Usage and sociolinguistics.

580 English Language Workshop (1-4) Workshop to survey recent developments and newer concepts in English linguistics for teachers. Variable structure and credit by arrangement with individual school districts.

584 Old English Language and Literature (3) An introductory study of the language through a reading of selected religious and secular poetry and prose.
585 Middle English Language and Literature (3) An introductory study of the language (1150-1450) through a reading of selected texts (exclusive of Chaucer).

• 589 Language Seminar (3) Studies in English language and linguistics. Topics announced when offered, PREREQ: LIN 501 or the equivalent.

• 590 Independent Study (1-3) Research projects, reports, and specialized readings. PREREQ: Approval of instructor and coordinator of English graduate studies.

TEACHING SKILLS

591 Modern Techniques for the Teaching of English (3) Techniques of teaching language arts, composition, and literature in the secondary school. Practice in planning and designing units and courses of study. Exploration into the latest research in teaching English.

592 Literature for the Elementary School (3) The content and approach of the literature program in the elementary school.

593 Literature for the Secondary School (3) An examination of the literary interests of the secondary school student. A discussion of the works of major writers who appeal to the teenage student.

COMPOSITION AND RHETORIC

Please note that the Composition and Rhetoric concentration is not currently available.

• 508 Writing Seminar (3) Experience in nonfiction prose writing; discussion and development of major projects.

594 Directed Studies in Composition and Rhetoric (3) Offers students systematic guidance and instruction in a specially formulated project involving scholarly or empirical research in composition.

595 Teaching Composition (3) A survey of developments and research in composition. Focus on the writing process, grading and evaluation, case approaches to writing assignments, writing across the curriculum, and remedial and developmental writing. 596 Composition and Rhetoric (3) Survey of rhetoric and composition theory. Frequent practice in writing.

600 Tutoring Composition (3) Theory and practice of teaching basic writing in the tutoring environment.

CREATIVE WRITING

504 Methods and Materials of Publishing (3) This course is designed to familiarize graduate students with the history of the book and to provide them with the opportunity to gain practical experience in book production.

- 509 Writing Seminar in the Novel 1 (3) A course in the writing and preparing of book-length manuscripts (novels, novellas, and "nonfictional" novels) with the intention of submission for publication. Also includes coverage of fictional aspects and techniques used in writing memoirs, biography, and current history.
- 510 Writing Seminar in the Novel II (3) A continuation of ENG 509.
- 601 Creative Writing Seminar (3) A specialized writing seminar. Topics announced when offered. Longer prose works, short story, fantasy science fiction, narrative verse, lyric meditative verse, etc. A portfolio is required at the end of the course.

 602 Creative Writing: Directed Studies (3) A course of individual study for students who have completed two workshops in a single genre.
 Concentrated work in a special poetry or prose topic.

• 605 Poetry Workshop I (3) Experience in writing various types of poetry: traditional forms, narrative, lyric meditative, etc. Readings in traditional and contemporary poetry and poetics. A final portfolio required.

• 606 Poetry Workshop II (3) Extended work in poetic forms with additional emphasis on contemporary poetry in translation. A critical paper on contemporary poetry and poetics and a completed portfolio are required.

• 608 Shart Stary Workshop 1 (3) Techniques of composing the short story with emphasis on its elements of form: point of view, diction, characterization, and dialogue. Readings in traditional and contemporary criticism and short stories. Completed portfolio of revised works is required.

• 609 Short Story Workshop II (3) Extended work in the short story form with opportunities for exploring more experimental forms of short fiction. Additional readings in short fiction and criticism. A critical paper on a contemporary short story writer is required.

• 615 Special Topics (3) Variable topics, usually interdisciplinary, incorporating issues related to literary fields, genres, historical periods, and theoretical approaches.

M.A. ESSAY

• 620 M.A. Essay (3) Required final extended paper (about 40 pages) written under the direction of an adviser. Further details available in the *Graduate English Studies Handbook*. Oral defense required.

SPECIAL PROGRAM PENNSYLVANIA WRITING AND LITERATURE PROJECT

Symbol: PWP

The courses described below are intended to be taken primarily by teaching professionals who are seeking to enhance their writing and literature instruction capabilities while earning graduate credit. Only one PWP course (with the approval of the English graduate coordinator) will apply to the West Chester University master's degree in English and only if students are in the composition and rhetoric concentration. Students interested in applying PWP courses toward the M.Ed. in elementary education, or the M.Ed. in secondary education must consult with their adviser or the graduate coordinator of their program to secure prior approval.

• 501 The Writing Process (1) A practical introduction to the writing process approach to teaching writing. Permission of instructor required.

• 502 Strategies for Teaching Writing (2-3) This basic course is designed to familiarize teachers with successful practices and related research and theory in the field. Permission of instructor required.

- 503 Strategies for Teaching Writing 11 (3) Practical and research-based skills of prewriting, writing conferences, revision, editing, and evaluation. PREREQ: PWP 502 or PWP 510 and permission of instructor required.
- 504 Holistic Assessment of Writing (1) Theory and practice of rapid and reliable assessment of large numbers of writing samples as used in schools and colleges. Permission of instructor required.
- 505 Writing in the Content Areas (1)
 Participants will explore ways of motivating students to write about academic areas, design effective assignments, and use writing process methods to improve learning in all subjects. Topics include learning-centered writing, evaluation, and classroom management of writing. Permission of instructor required.
- 506 Computers and Writing (Beginning) (1) Computer applications at all stages of the writing process. Basic awareness, demonstrations, and hands-on experience will be emphasized. Permission of instructor required.
- 510 Writing, Reading, and Talking Across the Curriculum (3) Rationale and strategies for critical language experiences in all subjects. Supports PCRP2 state curriculum framework. Permission of instructor required.
- 511 Writing Assessment (3) Large-scale and classroom writing assessment; implications for writing instruction. Permission of instructor required.
- 512 Teacher-Research Seminar (3) Individual research projects for classroom studies of teaching, learning, and literacy. Permission of instructor required.
- 513 PCRP2 Seminar on Writing and Thinking Across the Curriculum (3) Critical exploration of Pennsylvania state curriculum framework for language and learning. PREREQ: PWP 510 and permission of instructor required.
- 515 Workshop in Administering Writing Programs (1) Creating and maintaining successful writing and language arts programs. Permission of instructor required.
- 517 Workshop in Writing Assessment (1) Different assessment models and their relation to instruction, with information from the Pennsylvania Writing Assessment. Permission of instructor required.
- 520 Teaching Literature (3) Focus on instructional practices that reflect current theories and approaches to classroom use of literature, K-12. Permission of instructor required.
- 521 Seminar in Teaching Literature (3) Intensive study to develop advanced skills in teaching literature. Permission of instructor required.
- 522 Literature and Curriculum Development (3) Focus on literature available for curriculum development, K 12, and approaches for integrating and teaching that literature. Emphasis on issues of race, gender, ethnicity, class, and censorship. Permission of instructor required.
- 597 Seminar for Master Teachers (6)
 Participants develop advanced skills in the teaching of writing, receive training as in-service "teacher/consultants," and develop relationships with other writing teachers who seek to improve their teaching and writing. Permission of instructor required.
- 599 Workshop in English (1-6) Topic varies. Each workshop will focus on specific issues and problems in the teaching of writing or literature and will introduce appropriate instructional materials and techniques. Permission of instructor required.
- This course may be taken again for credit.

Foreign Languages

109 Main Hall

West Chester University

West Chester, PA 19383

610-436-2700

Dr. Williams, Chairperson

Dr. Patton and Dr. Moscatelli, Assistant Chairpersons

Dr. Pauly, Coordinator of Graduate Studies

FRENCH

PROFESSOR

Rebecca Pauly, D.M.L., Middlebury College

ASSOCIATE PROFESSOR

Anne-Marie Moscatelli, Ph.D., Bryn Mawr College

ASSISTANT PROFESSOR

Michel H. Sage, Ph.D., University of California, Berkeley

GERMAN

ASSOCIATE PROFESSORS

Ronald L. Gougher, M.A., Lehigh University Margarete Landwehr, Ph.D., Harvard University

ASSISTANT PROFESSOR

Stephen D. Gilmour, Ph.D., University of Minnesota

LATIN

PROFESSOR

Erminio Braidotti, Ph.D., University of Pennsylvania

INSTRUCTOR

John P. Rosso, M.A., University of Pennsylvania

SPANISH

PROFESSORS

Erminio Braidotti, Ph.D., *University of Pennsylvania* Stacey Schlau, Ph.D., *City University of New York* Jerome M. Williams, Ph.D., *Yale University*

ASSOCIATE PROFESSORS

Jorge Escorcia, M.A., *Boston University* Celia Esplugas, Ph.D., *University of Toledo* Constance Garcia-Barrio, Ph.D., *University of Pennsylvania* Andrea Varricchio, Ph.D., *Temple University*

ASSISTANT PROFESSOR

Maria Van Liew, Ph.D., University of California, San Diego

Programs of Study

The Department of Foreign Languages offers two degree programs, one leading to the master of education in French or Spanish, and the other to the master of arts in French or Spanish. Admission to either program is through the Office of Graduate Studies. The GRE, or under special circumstances the MAT, is

required for admission to either program. A placement test in the language will be required of all candidates, including native speakers. Applicants must have an undergraduate major in the language, or native fluency and a related four-year university degree. Students have six years to complete the master's programs in the department. Students in the master's programs may take up to six hours of 400-level courses in the language. Students may transfer in up to six semester hours from another master's degree-granting institution. Candidates for either the M.A. or the M.Ed. degrees are required to pass comprehensive examinations in the foreign language although the examination for the M.Ed. is less comprehensive in scope than that for the M.A.

MASTER OF EDUCATION IN FRENCH OR SPANISH (36 semester hours)

The M.Ed. program requires LAN 500 (Methods and Materials of Research in Second Language Education), LAN 503 (Techniques of Second Language Teaching), and 18 semester hours in the area of concentration. In both languages, the concentration may be designed to the student's particular interests and needs. Students in either of the languages may also elect other courses from those under the heading "Courses Common to All Languages" for the concentration. The remaining 12 semester hours must be taken in graduate courses in Professional and Secondary Education (see page 83). Currently, the courses required for state secondary certification in foreign languages include EDF 589, EDM 501 or 502, EDP 531, EDP 550, and EDS 599. Thus, certification and the M.Ed. totals 48 hours (36 hours of courses plus 12 hours of student teaching [EDM 411 and 412]). All M.Ed. students also should consult with an adviser in the Department of Professional and Secondary Education.

Until further notice, no new students will be admitted to the M.Ed. in German or Latin.

MASTER OF ARTS IN FRENCH OR SPANISH

(30 semester hours)

The M.A. programs in French or Spanish offer either a thesis or a nonthesis option, in addition to the required 21 semester hours of courses in the language. The master's in Spanish also requires SPA 510. The thesis option in both French and Spanish is six semester hours of LAN 610. The nonthesis option in Spanish offers six semester hours of electives, which may be done in the area of concentration or at the graduate level in a second foreign language. The nonthesis option in French includes nine hours of electives, in either LAN courses, the concentration, related areas of study, or at the graduate level in a second foreign language.

The candidate for the M.A. must either pass a reading examination in a second foreign language or take a 400- or 500-level course in that language, in addition to the 30 hours. As an exception, students who demonstrate graduate level competence in two foreign languages may take additional graduate level courses in the second language. These courses are substituted for the electives. This dual course of study may be reflected in the questions for the comprehensive exams at the student's request.

COURSE DESCRIPTIONS COURSES COMMON TO ALL LANGUAGES

Symbol: LAN

500 Methods and Materials of Research in Second Language Education (3) Techniques of research in foreign language education, including sources, design, interpretation, evaluation, and reporting of data.

502 Second Languages in the Elementary School (3) Problems in teaching second languages in the elementary school. Curriculum design, bilingual education, classroom techniques, articulation, materials, and testing. Preferably, LIN 501 or equivalent should precede LAN 502.

503 Techniques of Second Language Teaching (3) Advanced course in recent theoretical bases, methods for teaching beginning and advanced levels, curriculum design, and evaluation.

PREREQ: LIN 501 or equivalent.

504 Use of Media in Language Teaching (3) Role of media in language instruction including the tape recorder, language laboratory, television, and the computer.

505 Introduction to Bilingual/Bicultural Education (3) Introduction to history, philosophy, current status, and future directions of bilingual/

bicultural education. Survey of materials, tests, techniques, instructional processes, and instructional patterns. Overview of testing, placement, and pupil evaluation.

511 Roman Civilization (3) Roman civilization and its influences on Europe.

550 Seminar in Methods and Materials of Research in Language and Literature (3) The principal tools of research in the field of foreign language and literature. Methods of conducting and reporting research, emphasizing correctness of form and mechanics of scholarly writing.

560 Directed Studies (3) To provide an opportunity for students to pursue areas of study not regu-

larly provided by the department. Focus of course to be announced when offered.

580 Seminar in Second Language Education (1-4) Specialized workshop seminar devoted to a particular area of foreign language education.

585 Institute in Second Language Education (4-8) In-depth study of a particular area of foreign language education.

590 Independent Study (1-3)

600 Research Report (1-2)

610 Thesis (6)

See also Linguistics (LIN)

FRENCH

Symbol: FRE

501 Commercial French (3) A study of French economic and business systems, with extensive practice in business correspondence.

510 French Theater (3) Principal French dramatists analyzed against the social, political, literary, and critical backgrounds of their age.

511 Modernism in French Literature (3) Close consideration of some prime innovative texts of fiction, poetry, film, and polemic as manifestations of the spirit and aesthetic of modernism.

512 French Narrative (3) A study of prose texts, their ethos, and their narrative techniques, from the epics and contes of the Middle Ages to the experimental works of the late 20th century.

513 French Poetics (3) An intensive survey of French poetry, its theory and practice, using models drawn from the whole tradition, from Villon to Bonnefoy.

514 Contemporary France (3) A study of France since 1945, with emphasis on current events and social changes.

515 French Civilization (3) A study of France since 1789, with emphasis on social, political, economic, and educational institutions.

516 Writing Literary Criticism: Theory and Practice (3) Study of various fields of literary theory, including structuralism, semiotics, Marxism, narratology, psychoanalytic criticism, and deconstruction. Techniques of textual interpretation.

 520-521-522 Topics in French Literature and Language (3) Course topics courses will vary by semester and instructor, and may include titles such as genre studies, film study, women writers, francophone writers, the study of literary periods or movements, and structural and applied linguistics. **523** Translation Techniques (3) A theoretical and practical study of modes of lexical and syntactic transposition, from L1 to neutral zone to L2. Extensive practical exercise in diverse types of translation.

SPANISH

Symbol: SPA

510 Applied Spanish Linguistics (3) A study of Spanish morphology, phonology, and syntax (sound, word, sentence formation). The structure of the language will be studied from a theoretical and practical perspective.

512 Advanced Spanish Grammar and Stylistics (3) An informal, rapid review of Spanish grammar, with emphasis on problems fundamental to the American classroom. Exercises include idiomatic expression, various levels of style, and translation.

514 The Hispanic World (3) Major philosophical and artistic contributions of the Hispanic world to Western civilization. The social and economic institutions of the Hispanic world.

520 Medieval and Renaissance Literature (3) Analysis of major Spanish texts and authors from 1100-1500, including Mio Cid, *la Celestina*, Alfonso X, Manrique, Don Juan Manuel, Berceo, Encina, and Juan Ruiz.

530 Spanish "Comedia" of the Golden Age (3) Survey of the *comedia* before Lope de Vega; the contributions of Lope de Vega; Tirso de Molina and Ruiz de Alarcón; the Baroque theatre of Calderón de la Barca.

532 Spanish Literature of the Golden Age (3) Novel and poetry. Spanish literature of the 16th and 17th centuries: mysticism, poetry, novel.
533 Cervantes (3) Life and works of Miguel Cervantes Saavedra: Novelas ejemplares. Ocho comedias y otro entremeses. La Numancia, La Galatea, all of which lead to the study of the meaning, philosophy, and influence of Don Ouixote.

535 19th-Century Spanish Literature (3) An analysis of the major movements of the century, including Romanticism, "Costumbrismo," Realism, and Naturalism.

536 The Generation of 1898 (3) The revitalizing forces which took hold in the late 19th century, and a study of the works of Unamuno, Azorin, Menéndez Pidal, Pio Baroja, Valle Inclán,

Benavente, Martinez Sierra, and Rubén Dario. 537 20th-Century Spanish Literature (3) Introduction to representative works of 20th-century Spanish literature. Authors studied include Arrabal, Cela, Delibes, Lorca, Goytisolo, Matute, Sender, and others.

541 Colonial Latin American Literature (3) A study of colonial Latin American literature within the context of conquest and colonization, with emphasis on religious, historical, and literary aspects of the New World as seen through primary authors and readings.

542 Modern Latin American Literature (3) Spanish-American literature, thought, and culture as revealed in outstanding works representative of major authors and movements from the Independence to 1950 (including Romanticism, Modernism, Regionalism, and avant garde).

543 Contemporary Latin American Literature (3) A study of major authors and literary movements in contemporary Latin America, including magical realism, theatre of the absurd, and poetic movements.

544 Latin American Theatre (3) A study of theatre as a reflection of social realities and of dramatic movements and techniques in Latin America. The cultural history of the Latin American stage also will be examined.

545 The Latin American Novel (3) The development of the novel in Latin America. The colonial period, the period of independence, the romantic period; realism, modernism, *criollismo*, and naturalism.

546 The Black in Spanish-American Literature (3) The characterization of blacks in Spanish-American literature, and the political and social context of their portrayal.

547 Hispanic Women Writers (3) An examination of representative women authors and their prose, poetry, and theatre from the 17th century to the present in Spain and Spanish America.

549 Masterpieces and Movements in Spanish Literature (3) A seminar on the development of Spanish thought and artistic expression through selected masterpieces of literature and art.

• 556 Seminar I (3)

• 557 Seminar II (3)

This course may be taken again for credit.

Geography and Planning

103 Ruby Jones Hall West Chester University West Chester, PA 19383 610-436-2746

Fax: 610-436-2889

Dr. Rengert, Chairperson and Coordinator of Graduate Studies E-mail: arengert@wcupa.edu

Dr. Welch, Coordinator of Regional Planning Concentration in M.S.A. E-mail: jwelch@wcupa.edu

PROFESSORS

Arlene C. Rengert. Ph.D., *University of Pennsylvania* John C. Tachovsky, Ph.D., *University of Cincinnati* Wesley W. Thomas, Ph.D., *University of Cincinnati*

ASSOCIATE PROFESSORS

Charles W. Grassel, M.S., University of Pennsylvania

James P. Lewandowski, Ph.D., *Ohio State University* Joan Welch, Ph.D., *Boston University*

ASSISTANT PROFESSORS

Christopher P. Brown, Ph.D., University of California, Santa Barbara, and San Diego State University (joint degree program)

George W. Fasic, M.S., Columbia University, A.I.C.P.

Programs of Study

The Department of Geography and Planning offers two masters degrees: 1) the master of arts in geography and 2) the master of science in administration, with a concentration in regional planning. The latter is an interdisciplinary degree described under "Master of Science in Administration" (see pages 28, 30–31).

The master of arts in geography is designed to develop skills and expertise useful in solving society's problems in areas such as land planning and management, conservation of resources, demo-

graphic change, and location of commerce and industry. It also prepares students for entrance into Ph.D. programs in geography, and in social studies education.

MASTER OF ARTS IN GEOGRAPHY

(33 semester hours)

Admission to Program

Applicants should submit transcripts of all undergraduate work, three letters of recommendation, a resume that indicates relevant work experience. and a statement of career background and goals. GRE or other standardized scores are useful in the admission process and may be required for some applicants. The department welcomes qualified applicants who have no previous background in geography, although additional preliminary or concurrent work may be required. Admission is based on department evaluation of course work taken for the baccalaureate degree and additional course work, if any, in combination with the other criteria above.

1. Required Courses GEO 503, 509, 534, and 585

12 semester hours

2. Thesis (3 hours required) **GEO 610**

(up to) 6 semester hours

- 3. Elective Courses 18 semester hours Selected under advisement from geography, geology, mathematics, statistics, computer science, environmental health, or other appropriate disciplines.
- 4. Oral examination in defense of thesis (required)

MASTER OF SCIENCE IN ADMINISTRATION

Concentration in Regional Planning

(36 semester hours)

Admission to Program

See "Master of Science in Administration" listing, page 28.

- 1. Administration Core (required) 18 semester hours ADM 501, 502, 503, 504, 505, 506, or 507
- 2. Regional Planning Core (required) 6 semester hours ADM 500 Methods and Materials of Research (3) GEO 525 Urban and Regional Planning: Theory and Practice (3)
- 3. Regional Planning Electives 12 semester hours (selected under advisement), including ADM 600, 612 GEO 502, 505, 506, 507, 509, 521, 524, 526, 527, 530, 534, 536, 585, 590, and 615 PSC 542 and 544
- 4. Each student in this concentration will develop with the graduate coordinator a tailored contract of courses meeting the needs of the student. The individualized contract will address the background and career goals of the student.
- 5. Comprehensive examination (written) in concentration is required. The examination will be based on a selected bibliography of key works in the concentration. The bibliography will be provided at the time the student is admitted to the program.

COURSE DESCRIPTIONS GEOGRAPHY

Symbol: GEO

- 502 Topical Seminar (3) Special topics in geography of planning not offered under existing, regularly offered courses.
- 503 Seminar in Modern Geography (3) A survey of modern geographic research, with historical perspective. Attention is given to research methodology, and to the breadth of subfields and perspectives in the discipline.
- 505 Planning Design (3) Methods and techniques of planning design. Presentation of statistical data in map form. PREREQ: Consent of instructor or department chair.
- 506 Seminar in Physical Geography (3) This course examines aspects of the physical environment that must be considered when planning any site for urban, industrial, or suburban activity.
- 507 Maps and Aerial Photographs (3) Designed to improve map and photo interpretation skills. Emphasis on increased understanding of U.S.G.S. quadrangles, and special-purpose statistical maps. 509 Quantitative Methods (3) Fundamental sta-
- tistics, methods, and techniques applied to geographic research and decision making, such as urban and regional planning. 521 Suburbanization and Land Development (3)
- Component systems and functional operations of urban/suburban communities, including ecological and demographic aspects. Emphasis on organization, development, change, and problems of communities. 524 Population Processes (3) Characteristics and distribution of world populations are studied. The dynamic processes of population change (mortality, fertility, and migration) are examined.
- 525 Urban and Regional Planning (3) Application of community-planning theories and methods to designated urban and regional systems. 526 Metropolitan Systems and Problems (3) Urbanization processes and problems; urban systems in the expanding metropolitan and regional setting; present and proposed efforts to solve

urban problems.

- 527 Planning Law and Organization (3) An insight into the role of federal, state, and local governments in instituting, executing, and judicially reviewing laws and regulations pertaining to land uses. Emphasis on the legal organization of the planning process, particularly at the local level. Major land-use court cases are presented and reviewed.
- 530 Demographic Analysis (3) A course to develop skills in basic demographic research, emphasizing the uses and limitations of data sources, and the understanding and interpretation of specific analytic methods for population analysis.
- 534 Geographic Information Systems (3) The common principles and concepts of Geographic Information Systems; examination of the theory and tools of spatial data analysis through specific applications.
- 535 Geographical Analysis of International Trade (3) An analytical course covering standard geographical models of international trade, with special emphasis on spatial interaction models and spatial hierarchical models of commodity exchange.
- 536 Environmental Planning (3) In-depth instruction on the concepts and tools of environmental planning which include landscape form and function in planning. Applications to local and regional issues are stressed.
- 540 Geography of the United States and Canada (3) A regional study of the United States and Canada, emphasizing its physical geography, settlement, agriculture, demography, and industrial activity
- 544 Geography of Latin America (3) Regional geography of Latin America: its physical base, settlement, agriculture, demography, and manufacturing. 545 Geography of Europe (excluding the
- U.S.S.R.) (3) Regional study of Europe. Influences of environmental factors, such as climate, landforms, and soils on the economic, social, and political condition of European nations.
- 546 Geography of the (Former) Soviet Union (3) Study of the physical, territorial, and demographic attributes of the former U.S.S.R.; an

- analysis of the problems and prospects of the Commonwealth of Independent States.
- 572 Seminar in Resource Management (3) Applied research problem solving for resource management and environmental issues designed for an individual student or team-study basis. 584 Applications of Geographic Information Systems (3) This course builds on GEO 534, expands upon important technical concepts in greater detail, and explores a range of GIS application areas. PREREQ: GEO 534 or permission of instructor.
- 585 Geography Field Methods (3) An advanced field course that includes urban and land-use studies. Use of field methods, mapping, and data collection for geographical reports.
- 590 Independent Studies in Geography (3) Research projects, reports, and readings in geography. PREREQ: Approval of discipline graduate coordinator.
- 610 Thesis (3-6) A thesis is developed on a research problem for which the student formulates a theory, proposition or hypothesis, and investigates available information on the subject.
- 615 Internship (3-6) On-the-job experience in the application of theory, execution of substantive research, and provision of service with professional agencies at selected off-campus locations.
- In addition to the above GEO courses, the following ADM courses are offered, especially in connection with the master of science in administration.
- 500 Methods and Materials of Research (3) Logic of scientific methodology, research design construction. Stress on hypothesis development and testing, data collection, measurement problems, theory application.
- 600 Research Report (3)
- 610 Thesis (3)
- 612 Internship (3-6) Intensive field placement in organizations under faculty guidance/supervision. Precontracted learning objectives.
- This course may be taken again for credit, up to a maximum of six credits.

Geology and Astronomy

207 Boucher Hall West Chester University West Chester, PA 19383 610-436-2727

Dr. Wiswall, Chairperson
Dr. Good, Coordinator of Graduate Studies

PROFESSORS

John Stolar, Ed.D., Pennsylvania State University C. Gil Wiswall, Ph.D., University of Montana

ASSOCIATE PROFESSORS

Richard M. Busch, Ph.D., University of Pittsburgh Allen H. Johnson, Ph.D., Case Western Reserve University Arthur R. Smith, Ed.D., University of Pennsylvania Elizabeth LeaAnn Srogi, Ph.D., University of Pennsylvania

ASSISTANT PROFESSORS

Steven C. Good, Ph.D., *University of Colorado, Boulder* Timothy M. Lutz, Ph.D., *University of Pennsylvania*

Programs of Study

The Department of Geology and Astronomy offers a master of arts degree in physical science designed to provide the precollege teacher with enhanced academic preparation in the earth, space, and related sciences. Each student's course of study is individually designed based on previous academic preparation in science and the specific teaching assignment and environment. The student may select a thesis or nonthesis option depending on his or her academic goals and requirements. By completing the M.A. program, students with a bachelor's degree in science and teaching certification can obtain earth and space science and/or general science teaching certification with the appropriate selection of elective courses. This degree is normally not pursued by those already holding a degree in geology.

Admission Requirements

In addition to meeting the general requirements of the West Chester University Office of Graduate Studies, students seeking admission to the Department of Geology and Astronomy should have an undergraduate cumulative GPA of 2.5 on a 4.0 scale, a combined score of 1000 on the General Test of the Graduate Record Examination, and the approval of the department's graduate review committee. Introduction to Geology and General Astronomy, or equivalent courses, are prerequisites for the program.

Applications should be submitted to the University's Office of Graduate Studies, which will forward the application to the department's graduate coordinator. The graduate review committee will screen all applications. An interview may be requested of the applicant. The admission decision will be based on the strength of the application and the interview, if scheduled.

Application deadlines: May 1 for fall admission, November 1 for spring admission, March 1 for summer admission. Students wishing to be considered for a graduate assistantship must apply by December 1 of the preceding year.

Degree Requirements

All students complete a core of five courses: Environmental Geology, The Field as a Classroom, Meteorology, Oceanography, and Earth Systems. Students choosing the nonthesis option must also complete Geometrics. Students are required to write a 3–5 page essay for each course within their program relating the content of that course to another course within their program. The portfolio required for the nonthesis option consists of tive of these essays selected by the student.

Thesis Option

Students must complete a minimum of 15 credits approved by the thesis committee beyond the core. Up to six graduate credits may be taken in biology, chemistry, computer science, mathematics, or physics. The student must write and orally defend a six-credit thesis to complete the program.

Nonthesis Option

Students must complete a minimum of 21 credits approved by the advisory committee beyond the core and Geometrics. Up to nine graduate credits may be taken in biology, chemistry, computer science, mathematics, or physics. The student must submit a portfolio and pass an oral comprehensive examination to complete the program.

Earth and Space Science Teaching Certification Requirements The following courses will complete the requirements for secondary earth and space science teaching certification:

- 1. ESS 101, 111, 502, 504, 521, 523, 530, 536, 570, 596
- 2. ESS electives: six hours of additional course work in earth and space science
- 3. Allied science and math: BIO 110; CHE 103 and lab; CSC 101, 115, or 141 (Computer Science); MAT 108 (Calculus) and 121 (Statistics); PHY 130; and four additional hours of either BIO, CHE, or PHY
- Education course(s): SCE 350 or 500 and course work required by the School of Education.

General Science Teaching Certification Requirements

The following courses will complete the requirements for secondary general science teaching certification:

- BIO 110, 215, 217; CHE 103 and lab, 104 and lab; ESS 101, 111, 530, 570; PHY 130 or 170, 140 or 180; 12 hours of electives within one of the above science disciplines that demonstrate proficiency in fieldwork, research, and technology (see adviser for specifics)
- One interdisciplinary science course (BIO 102, ENV 102, ESS 102, or SCB 210); CSC 101, 115, or 141 (Computer Science); MAT 108 (Calculus) and 121 (Statistics)
- 3. Education course(s): SCE 350 or 500 and course work required by the School of Education.

COURSE DESCRIPTIONS GEOLOGY AND ASTRONOMY

Symbol: ESS, except as noted

It is assumed that for all geology courses, ESS 101 is a prerequisite, and for all astronomy courses, ESS 111 is a prerequisite. In addition, any course may be taken with permission of the instructor.

502 Investigating Earth Materials (3) Origins of minerals and rocks. Observation, data collection, and analysis applied to the study of earth materials. Hands-on experience in sample identification and mineral analysis in the laboratory and field. Introduction to software and Internet resources for minerals and rocks. Preparation of teaching modules

involving minerals, rocks, and local geology. Required one-day field trip on a weekend. PRE-REQ: ESS 101 or equivalent; CHE 103 and 104 or equivalent is strongly recommended.

504 Historical Geology (3) Geologic history of the earth and the evidence for this history, including discussion of the formation of the earth, atmosphere, oceans, and the historical evolution of land, air, and sea and the life that inhabits these environments. Examination of fossils and geologic maps. PREREQ: BIO 110, CHE 104, and CRL 104.
505 Petrology (3) Origin, classification, and identification of rocks. Hand specimen examination.

507 Geology of the Solar System (3) The geolo-

PREREQ: ESS 502.

gy, origin, and properties of planets, comets, asteroids, moons, and meteorites; planetary exploration. PREREQ: One introductory course in astronomy and one in geology.

508 Field Geology (1-3) Practical experience in techniques and tools of the field geologist. PRE-REQ: An introductory geology course.

510 Intermediate Mineralogy (3) How the petrographic microscope, x-ray diffraction, and the electron microscope are used to identify minerals. PREREQ: ESS 502.

513 Principles of Geochemistry (3) Migration and distribution of the chemical elements within the earth; chemistry of the lithosphere, hydrosphere, and biosphere; chemical changes through-

out earth history; the geochemical cycle.

- **520 Structural Geology (3)** An introduction to structural analysis: a study of the deformational features of the earth's crust and the forces responsible for producing them. PREREQ: ESS 505, or permission of instructor.
- **521 Geometrics (3)** Application of computational and statistical methods to geological problems. Geologic sampling, data comparisons in environmental, petrologic, paleontologic, and geochemical problems.
- **523** The Field as a Classroom (3) A study of field techniques that enable teachers to develop lessons using field sites. Topics include researching field sites, field trip design and planning, preparatory and summative activities. Course is conducted largely in the field.
- ESL 527 Electron Microscopy 1 (3) A onesemester lecture/laboratory course in theory operation and applications of electron beam technology in scientific research. Course scheduled on student-demand basis. Cannot be applied to the M.A. degree without prior approval of the graduate committee.
- ESL 529 Electron Microscopy II (3) A onesemester lecture/laboratory course in advanced theories operation and applications of electron microscopy in scientific research. Emphasis on individual projects. PREREQ: ESL 527. Course scheduled on student-demand basis. Cannot be applied to the M.A. degree without prior approval of the graduate committee.
- 530 Principles of Oceanography (3) Geology of the ocean floor, water movements, chemical characteristics of sea water, and vertical and horizontal distribution of plants and animals. Brief history of oceanography.
- 531 Introduction to Paleontology (3) Identification, paleobiology, and importance of fossils; paleoecology; and evolution.
- 532 Advanced Oceanography (3) An advanced course in oceanography covering resources, oceanographic literature, animal-sediment relationships, field techniques, estuaries, salt marshes, sea level changes, and pollution. PREREQ: ESS 230 or 530.
- 533 Crystallography and Optical Mineralogy (3) Application of the principles of symmetry and crystal chemistry to understand the properties of minerals and rocks. Use of the petrographic microscope to identify minerals in thin section. PRE-REQ: ESS 502, general chemistry.
- 535 Introduction to Remote Sensing (3) An introduction to the science and technology of remote sensing and the applications of remote sensing data to geology, oceanography, meteorology, and the environment. Includes a discussion of the history and principles of remote sensing; fundamentals of electromagnetic radiation; theory and types of active and passive remote sensing systems; fundamentals of image interpretation; digital analysis of LANDSAT and AVHRR data; operation of environmental satellites; and future imaging systems.

 536 Teaching Environmental Genlogy (3)
 Provides resources and strategies for teachers of

- environmental geology. Includes formulation of lesson plans, hands-on activities, and field trips. Subject matter will include natural hazards, natural resources, waste management, and sustainable development.
- 539 Hydrology (3) The factors that control the distribution, occurrence, and recoverability of groundwater; techniques for locating and estimating recoverable water; groundwater pollution and waste water disposal. PREREQ: CHE 104, CRL 104, and MAT 162.
- 542 Geophysics (3) Methods and techniques of physics applied to interpreting the internal structure and composition of the earth. PREREQ: MAT 162, PHY 180, or PHY 140.
- 543 Geomorphology 1 (3) Lectures will present the constructional and degradational processes that have shaped present landforms and are constantly modifying those landforms. Laboratories will focus on the interpretation of topographic maps and the use of remote sensing materials.
- 544 Geomorphology II (3) A continuation of the study of earth surface processes. Laboratories will focus on the interpretation of topographic maps and the use of remote sensing materials. PREREQ: ESS 543.
- 550 Sedimentology and Stratigraphy (3) The nature and origin of stratified deposits; the temporal-spatial relationships among stratified deposits, and other geologic and biologic phenomena; and the reconstruction of paleoenvironments.
- 555 Intermediate Astronomy (3) An analytical and qualitative analysis of selected astronomical topics: orbits, stellar properties, telescopes, photometry, solar surface details, nebulae, galaxies, and stellar evolution. Two-hour lecture and two-hour lab, including independent observatory work. PREREQ: Any descriptive astronomy course and algebra/trigonometry.
- 562 History of Astronomy (3) The development of astronomical theories from Greek times to the 20th century. PREREQ: Any descriptive astronomy course
- 570 Principles of Mcteorology (3) An in-depth study of the dynamic nature of the atmosphere with an emphasis on the role of weather-related phenomena in daily life.
- 571 Advanced Meteorology (3) An in-depth study of atmospheric phenomena such as midlatitude cyclones, global and local wind systems, hurricanes, tornadoes, and thunderstorms. Includes basics of weather forecasting models and prediction techniques.
- 575 Introduction to the Planetarium (3) Principles and use of the planetarium in teaching. Specific projects are assigned. PREREQ: Any general astronomy course.
- 580 Special Problems (1-3) Study of special topics and current developments in the earth and space sciences. PREREQ: Permission of instructor.
- 591 Independent Study (1-3) An investigation by the student. PREREQ: Permission of department.
 594 Geology of the NW National Parks (4) This course includes a field trip to the national parks in

- South Dakota, Wyoming, Montana, Idaho, northern Utah, and Colorado. The purpose of the course is to look at the geologic features of the national parks in these states and to develop an appreciation of the geology and geologic history of the region. PREREQ: Permission of instructor.
- 595 Geology of the SW National Parks (4) The course includes a field trip to the national parks in New Mexico, Arizona, southern Utah, and Colorado to look at the geologic features of these parks and to develop an appreciation of the geology and geologic history of the region. PREREQ: Permission of instructor.
- 596 Earth Systems Science (3) Energy drives interactions between the lithosphere, hydrosphere, atmosphere, and ecosphere producing an earth system of biogeochemical cycles that may be in homeostasis or change. The geological records of past icehouse and greenhouse climates are examined as potential models for evaluating the consequences of human-induced global environmental change and the choices that face society at local, national, and international scales. Instruction and assessments designed to model innovative strategies and current themes in earth systems science. PREREQ: ESS 523, 530, 536, 570, and 12 credits of program electives, or permission of instructor.
- 600 Thesis Research 1 (3) A theory is developed on a research problem for which the student produces a thesis. PREREQ: Permission of adviser.
- 601 Thesis Research 11 (3) A theory is developed on a research problem for which the student produces a thesis. PREREQ: Permission of adviser.
- 602 Directed Research I (3) A theory is developed on a research problem for which the student produces a graduate paper. PREREQ: Permission of adviser.
- 603 Directed Research II (3) A theory is developed on a research problem for which the student produces a graduate paper. PREREQ: Permission of adviser.

SCIENCE EDUCATION

Symbol: SCE

- 500 Modern Trends in Science Education (3) Introduction to current research in science education; a critical review of the literature.
- 501 Modern Trends in Teaching Earth and Space Science (3) Recent materials and techniques in secondary school earth and space science.
- 510 Workshop in Secondary School Curricula (3) Study of one of the commonly used science programs for secondary schools. The selected program is announced in advance.
- 595 Elementary School Science Instruction (3) A course to improve the science content backgrounds of elementary school teachers and administrators,

SCIENCE OFFERINGS DESIGNED FOR ELEMENTARY SCHOOL TEACHERS

PHY 571 Physics for the Elementary Teacher (3)

• This course may be taken again for credit.

Health

207 Sturzebecker Health Sciences Center West Chester University West Chester, PA 19383 610-436-2931

Dr. Patterson, Chairperson and Coordinator of Graduate Studies

PROFESSORS

Bethann Cinelli, D.Ed., Pennsylvania State University
Roger W. Mustalish, Ph.D., University of Minnesota
Robert P. Nye, Ed.D., Temple University
Gopal Sankaran, M.D., Dr.P.H., University of California, Berkeley
Maura J. Sheehan, Sc.D., University of Pittsburgh

ASSOCIATE PROFESSORS

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ASSISTANT PROFESSORS

Debra Bill-Harvey, Ph.D., *Temple University* Tammy James, Ph.D., *Kent State University* Sandra Walz, Ph.D., *Kansas State University*

ADJUNCT INSTRUCTOR

John P. Maher, M.D., State University of New York

Programs of Study

The Department of Health offers degree programs leading to the master of education in health, master of science in health, and a concentration in health services administration within the master of science in administration.

The master of education enriches academic preparation for teaching in elementary and secondary schools. A concentration in school health is offered.

The master of science is designed primarily to meet the individual needs of the graduate student who wishes to pursue graduate work as an aid to upgrading a career in government, health care, industry, research, or a related health profession. Concentrations in public health and school health are offered. The M.S. is recommended for persons planning doctoral study.

The health services administration concentration in the master of science in administration program meets the needs of those persons interested in entering the field of health administration, and of those persons presently in health administration interested in upgrading their careers.

Communication with the Department

All inquiries and other communications regarding the graduate program in health should be addressed: Graduate Coordinator, Department of Health, School of Health Sciences, West Chester University, West Chester, PA 19383. Students also may call for information at 610-436-2931, fax at 610-436-2860, or e-mail spatterson@wcupa.edu.

MASTER OF SCIENCE PROGRAM

Admission Requirements

Applicants must meet the basic requirements of the University for admission to graduate study and must present either a baccalaureate degree attained in their anticipated major area of health or equivalent preparation in a related field. They also must present the results of the aptitude section of the Graduate Record Examination and two letters of recommendation. Students who do not have adequate academic and professional preparation in the desired program of study will be required to take foundation courses.

Requirements for Admission to Degree Candidacy

Within the 15 semester hours of precandidacy, majors in health must complete departmental and concentration core courses with a minimum grade point average for these and all other courses during precandidacy of 3.0.

Requirements for the M.S.

- 1. Satisfactory completion of the M.S. curriculum shown below with a minimum overall grade point average (GPA) of 3.0
- Satisfactory performance on the written and/or oral comprehensive examinations
- 3. Oral defense of the thesis

Registration Policy for Thesis Credits

Thesis credits for the M.S. are earned in ENV 615 and HEA 615. Satisfactory completion of the departmental comprehensive examinations is required before registration for ENV/HEA 615 is permitted. The student can enroll in ENV/HEA 615 only once.

CURRICULUM

(30-36 semester hours)

1. Degree Core
HEA 520 Scientific Basis for Health 1 (3)

2. Concentration Core 9 semester hours

Students must select one of the concentrations below:

A. SCHOOL HEALTH

HEA 620 School Health Programs (3)

HEA 526 Scientific Basis for Health 11 (3)

HEA 622 Curriculum and Instruction for Health Education (3) HEA 632 Advanced Theories of Health Behavior (3)

B. PUBLIC HEALTH

HEA 500 Diseases (3)

HEA 531 The Community as a Basis for Health (3) HEA 632 Advanced Theories of Health Behavior (3)

3. Concentration Electives

18 semester hours

Selected under advisement

4. Additional Degree Requirements
ENV/HEA 615 Thesis

3 semester hours

Until further notice, no new students will be admitted to the M.S. concentration in environmental health.

MASTER OF EDUCATION IN SCHOOL HEALTH

Admission Requirements

In addition to meeting the basic requirements of the University, given under Admission, applicants must present a baccalaureate degree attained in the field of health, or equivalent preparation in a related field and two letters of recommendation.

Requirements for Admission to Degree Candidacy

Within the 15 semester hours of precandidacy, the student must complete departmental and concentration core courses with a minimum grade point average (GPA) of 3.0. Students who do not have adequate professional and/or academic preparation for the desired program of study will be required to take foundation courses.

Requirements for the M.Ed.

- 1. Satisfactory completion of the M.Ed. curriculum shown below, with a minimum overall GPA of 3.0 in the concentration
- Satisfactory performance on the written and/or oral comprehensive examination
- 3. Successful completion of the research project

Registration Policy for Research Credits

Research credits for the M.Ed. are earned in HEA 601. These credits must be preceded by successful completion of the degree core, concentration core, and concentration electives taken under advisement, Satisfactory completion of the departmental comprehensive examinations is required before registration for HEA 601 is permitted. The student can enroll in HEA 601 only once.

CURRICULUM

(39 semester hours)

1. **Degree Core** 6 semester hours HEA 520 Scientific Basis for Health 1 (3)

HEA 526 Scientific Basis for Health II (3)
2. Concentration Core

2. Concentration Core 9 semester hours
HEA 620 School Health Programs (3)
HEA 622 Curriculum and Instruction for Health Education (3)

HEA 622 Curriculum and Instruction for Health Education (3) HEA 632 Advanced Theories of Health Behavior (3)

3. Concentration Electives 21 semester hours
Selected under advisement
School health electives (12)
Education/counseling electives (9)

4. Additional Degree Requirements 3 semester hours HEA 601 Research/Report Writing in Health Education (3)

CONCENTRATION IN HEALTH SERVICES ADMINISTRATION— MASTER OF SCIENCE IN ADMINISTRATION

Admission Requirements

Applicants must meet the basic requirements of the University, given under Admission, and must present either a baccalaureate degree attained in their anticipated major area of health or equivalent preparation in a related field. They must also present the results of the aptitude section of the Graduate Record Examination (GRE) or the graduate Management Admissions Test (GMAT), submit a one-page statement of career objectives, arrange for two letters of recommendation, and have an interview with the degree admissions committee. The department's faculty contact for the M.S.A. program is Dr. Sankaran, 610-436-2300. Students who do not have adequate academic and/or professional preparation for the desired program of study will be required to take foundation courses.

Requirements for Admission to Degree Candidacy

Within the 15 semester hours of precandidacy, majors in the health services administration concentration must complete three of the administration core courses and two of the health services administration core with a minimum GPA of 3.0.

Requirements for the M.S. in Administration

- Satisfactory completion of the M.S. curriculum shown below with a minimum overall GPA of 3.0.
- Satisfactory performance on the written and/or oral comprehensive examinations in HEA 520, 526, 630, and 631.
- Complete each of the six administrative core courses with a grade of at least "B."

CURRICULUM

(36 semester hours)

1. Administration Core 18 semester hours
ADM 501 Administration Theory and Environment (3)
ADM 502 Computers for Managers (3)
ADM 503 Accounting for Administration (3)

ADM 504 Communication for Administrators (3)

ADM 506 Rudgeting and Fiscal Management (3)

ADM 506 Budgeting and Fiscal Management (3) or ADM 507 Liability for Managers (3)

2. **Health Department Core**HEA 520 Scientific Basis for Health 1 (3)
HEA 526 Scientific Basis for Health 11 (3)

3. Health Concentration Core 6 semester hours
HEA 630 Health Care Administration (3)
HEA 631 Health Services Law (3)

 Concentration Electives 6 semester hours Selected under advisement for health services administration concentration.

COURSE DESCRIPTIONS HEALTH

Symbol: ENV

Note: Contact the graduate coordinator for information on availability of courses in environmental health

524 Industrial Hygiene (3) A study of the recognition, evaluation, and control of health hazards in the work environment. PREREQ: ENV 530, permission of instructor.

530 General Environmental Health (3) Methods of promoting health by controlling environmental factors relating to air, water, wastes, housing, radiation, and industrial hygiene.

532 Hospital Environment (3) A comprehensive assessment of the environmental health aspects of hospitals, including microbiologic considerations, environmental hygiene, safety, general sanitation, and administration.

533 Water Quality and Health (3) An examination of the physical, chemical, and biological characteristics of natural waters and their significance for human health; methods of water treatment and distribution also will be considered.

534 Watershed Dynamics (3) A detailed examination of watersheds, with emphasis on spatial and temporal variability of water pollution parameters. Methods of assessing pollution of water resources will be presented.

536 Hazardous Waste Management (3) An assessment of the sources, characteristics, and human health effects of hazardous wastes, with emphasis on the design and implementation of control practices. PREREQ: ENV 530.

537 Water Pollution Control (3) The principles and practice of pollution control of municipal and industrial wastewaters. Emphasis on wastewater characterization, monitoring, and treatment facility operations.

538 Ground Water Contamination (3) Provides a qualitative and quantitative examination of the fate, transport, and remediation of contaminants in ground water.

540 Seminar in Environmental Health (3) Directed reading, discussions, and oral presentation on contemporary issues in environmental health. PREREQ: ENV 530.

545 Risk Assessment (3) Provides a qualitative and quantitative examination of hazard, toxicity, and exposure assessment to establish human health and ecological risk from environmental contamination.

546 Environmental Assessment (3) An examination of methodologies necessary to conduct comprehensive environmental assessments. Monitoring strategies, field sampling techniques, and data quality assurance will be presented. Particular emphasis will be given to the applications of geographic information systems (GIS) to environmental assessments.

547 Environmental Regulations (3) Provides a fundamental overview of major environmental law principles. Focuses on a wide range of air, waste, water, transportation, and occupational regulations.

551 Environmental Toxicology (3) A multifaceted investigation of the health problems caused by various toxins and hazards found in the general environment and the workplace. The human body's reactions to environmental toxins; how suspected environmental toxins are experimentally investigated and the specific health effects of critical environmental toxins will be emphasized. PREREQ: ENV 530, permission of the instructor.

553 Occupational Safety (3) A study of the practices to reduce safety risks in the work environment through recognition, evaluation, and control of safety hazards. PREREQ: ENV 530, permission of instructor.

581 Special Topics (1-3) An in-depth study of selected, current topics relevant to the development of environmental health professionals. Specific topics

will be noted in the master schedule. PREREQ: ENV 530, permission of instructor.

615 Thesis (3) A course for the master of science candidate. Students will select a topic, review the literature, prepare and conduct a research proposal, and write the thesis document. The student will defend the proposal and thesis document before a thesis committee.

Symbol: HEA

500 Diseases (3) Provides a contemporary view of disease and prevention, and a more precise understanding of disease processes. Body systems are reviewed, and the etiology, pathophysiology, symptoms, diagnostic techniques, and treatment methods used in selected diseases are studied. Illnesses most frequently found in our society are explored.

503 Human Nutrition (3) Selected topics in human nutrition will be extensively examined, such as fiber and health, vitamins and minerals in health and disease, methods of weight control, anorexia nervosa, and bulimia. Emphasis is placed on methods of evaluating nutrition-related literature and claims, and interpretation of data and scientific studies relevant to nutrition.

506 Current Issues in Death and Dying (3) The course is intended to provide accurate information on a variety of topics related to death. Students will examine theories and concepts related to controversial issues of death and dying.

510 Adolescent Medicine Issues (3) This course is designed for the health professional working with adolescents. Topics will include eating disorders, sports medicine issues, risk behaviors, and other common concerns among adolescents.

511 Stress Management Techniques and Program Development (3) The first half of the course is devoted to examining basic stress concepts, the psychophysiology of stress, common stressors and their effect, and the relationship between stress

and disease. The second half consists of a comprehensive review of stress management techniques that deal with cognitive restructuring, relaxation, and relationship building. Considerable emphasis is placed on personal application and group interaction in the classes.

512 A1DS and Public Health (3) Epidemiology of HIV/AIDS; natural history of HIV infection, psychosocial, economic, educational, ethical, legal, and health care issues related to HIV/AIDS will be addressed. Impact on social groups (minorities, women, and adolescents) will be discussed. Heath promotion and disease prevention strategies will be highlighted.

Professional Ethics and the Health
Professions (3) This course focuses on professional
ethical issues relevant to health in various settings.
Students will examine ethical principles and theories
underlying ethical dilemmas. Major areas of emphasis include ethical decision making, principles and
theories, codes of ethics, protection of human subjects, and ethical concerns in graduate education.
520 Scientific Basis for Health 1 (3) An overview
of the epidemiological model of disease causation.

525 Elementary School Health Education (3)
Trends in elementary school health: curricular approaches and emphasis, teaching strategies, motivational techniques, resources, materials, issues, problems, and evaluations. PREREQ: Background in elementary education.

Various epidemiological study designs and their

applications will be presented.

526 Scientific Basis for Health 11 (3) An overview of scientific methods, research designs, sampling, and survey techniques pertinent to the study of health issues will be presented. Choice and use of epidemiological and statistical software to analyze health data sets will be emphasized.

527 Sexual Issues in Modern Society 1 (3) Meet with professionals in various settings to discuss current sexual concerns, potential problems, and how to incorporate and handle these within the school curriculum. Sexual topics to include harassment, abuse, ethics, and religion. Course assumes basic knowledge of human sexuality.

528 Sexual Issues in Modern Society II (3) Emphasis is on experiential learning through such activities as visiting sites and speaking with health professionals. Included will be the Birthing Center, Women's Clinic, Planned Parenthood, and the Rape Crisis Center. Course assumes basic knowledge of human sexuality. 531 The Community as a Basis for Health (3) An analysis of the community with its diverse population and its response to critical and current health problems. Emphasis will be placed on the need for balance between individual and community needs, rights, and responsibilities.

538 Evaluation of Health Programs (3) Emphasis will focus on the procedures essential to the evaluation of health programs in a variety of settings (community, medical, school, worksite). Major areas include conducting needs assessments, quality assurance measures, data collection methods, and preparation of final reports. Includes both theoretical and practical experience.

581 Special Topics (3) In-depth study of selected health topics current to the interests and needs of professionals serving in various health and health-related areas. Topics will be announced prior to the first day of each semester.

601 Research/Report Writing in Health Education (3) The M.Ed. candidate selects a school health issue or a critical topic for review of the literature and produces a scholarly manuscript for publication in a professional journal. PREREQ: Permission of instructor.

609 Independent Study and Special Projects (1-3)
Research projects, seminar papers, reports of special
conferences, and reading in health. PREREQ:
Administrative approval.

611 Field Placement (3) A project for students in health concentrations. All core course work should be completed before beginning the project.

Permission of graduate coordinator required.

615 Thesis (3) A course for the M.S. candidate. Students will select a topic, review the literature, prepare a research proposal, and conduct and write the thesis. The student will defend the proposal and thesis document before a thesis committee. PREREQ: Successful completion of comprehensive exams.

620 School Health Programs (3) This course provides the theoretical underpinnings of the profession, professional responsibilities, and programmatic and critical issues in comprehensive school health programs.

622 Curriculum and Instruction (3) This course will address the foundation, philosophy, and practice of comprehensive school health education. Major focus in on the development, implementation, and evaluation of K-12 comprehensive school health education.

623 Substance Use Prevention (3) Designed for future and present school and public health educa-

tors, this course includes content and program planning skills for community and school: tobacco, alcohol, and other drug prevention curriculum and programs.

630 Health Care Administration (3) Administrative and management techniques acquired in the administrative core are applied to the problems involved in health administration/management.

Topics will include federal, state, and local health agencies; health care centers; organization principles; personnel factors; public relations; and fiscal management.

631 Health Services Law (3) An analysis of the basic legal concepts and major legal issues that are important to and directly affect the health services administrator. Topics include legal frameworks of health organizations and health practitioners, administrative policy, contracts, consent, patient's rights, legal death, insurance, liability, and research.

632 Advanced Theories of Health Behavior (3)
An advanced course on current theories in health
behavior and the application of these theories to
management methods in the health care field. Topics
include trends in health behavior, health concerns,
analysis of the decision-making process, and factors
affecting health behavior.

UNDERGRADUATE COURSES FOR GRADUATE CREDIT

The Department of Health has approved the following undergraduate courses for graduate credit when scheduled with the approval of the student's adviser and department chairperson. No more than six credits of 400-level course work may be used to satisfy graduate degree requirements.

ENV 459 Industrial Health Engineering (3) Students will learn the various environmental health control strategies and the theoretical bases for these strategies. Students also will improve their quantitative skills by solving problems concerning the control of environmental health and safety hazards. Cost effectiveness, as well as technical effectiveness, will be discussed.

ENV 460 Industrial Hygiene Techniques (3) Evaluation techniques for monitoring the industrial environment will be learned in a laboratory setting and in the field. These techniques will include monitoring of air quality, air flow, noise, heat stress, and radiation. Evaluation of personal protective equipment, pulmonary function testing, and audiometric testing also will be investigated. PREREQ: ENV 350, 452, or permission of instructor.

History

506 Main Hall West Chester University West Chester, PA 19383 610-436-2201

Dr. Dzamba, Chairperson
Dr. Jones, Assistant Chairperson
Dr. Davidson. Coordinator of Graduate Studies

PROFESSORS

H. James Burgwyn, Ph.D., University of Pittsburgh
Anne O. Dzamba, Ph.D., University of Delaware
Claude R. Foster, Jr., Ph.D., University of Pennsylvania
Charles Hardy, III, Ph.D., Temple University
Thomas J. Heston, Ph.D., Case Western Reserve University
Irene G. Shur, Ed.D., University of Pennsylvania
John J. Turner, Jr., Ph.D., Columbia University
Richard J. Webster, Ph.D., University of Pennsylvania
Robert J. Young, Ph.D., University of Pennsylvania

ASSOCIATE PROFESSORS

Marita Boes, Ph.D., City University of New York
Lawrence R. Davidson, Ph.D., University of Alberta
William Hewitt, Ph.D., University of Wyoming
James Jones, Ph.D., University of Delaware
W. Bennett Peters, Ph.D., University of California, Santa Barbara

ASSISTANT PROFESSORS

Karin E. Gedge, Ph.D., Yale University Lisa A. Kirschenbaum, Ph.D., University of California, Berkeley Erin E. O'Connor, Ph.D., Boston College

Programs of Study

The Department of History offers two degrees: the master of arts in history and, in cooperation with the School of Education, the master of education in social science with a concentration in history. The master of arts degree in history provides a sound foundation for more effective teaching on the secondary level, for study leading to

the doctorate, and for persons employed in industry and government. Study for the degree also enriches students' general cultural background and helps them to evaluate current events in light of the past.

The M.A. in history may be earned by completing either a thesis or nonthesis program. The candidate in the thesis program must pass a reading-proficiency test in an appropriate foreign language. The candidate, with the department chairperson's or graduate coordinator's permission, may substitute a demonstrated competency in statistics or a similar field. Students in the master of arts program in history (thesis or nonthesis option) are advised by the Department of History.

The master of education in history is designed to provide in-service teachers with additional professional education courses and an opportunity to enlarge their understanding of the historical past. It also is designed for the holders of the bachelor's degree who wish to earn state teacher certification while working toward a master's. Students in this program are advised by the Department of History.

Admission Requirements

The Department of History currently requires a 3.0 grade point average (GPA) in history and a 2.75 overall GPA for admission to its graduate programs. A statement of professional goals and three letters of recommendation, preferably academic, also are required. In both programs, admission to full-degree candidacy requires a GPA of 3.0.

Applicants who do not meet the above criteria may be admitted on a provisional basis. Students so admitted should apply for full-degree candidacy upon completion of 12 to 18 semester hours of applicable course work with at least a 3.0 GPA.

In both programs, candidates must pass written comprehensive examinations at or near the conclusion of their course work. The comprehensives are administered once each semester. Those candidates wishing to take the comprehensives in a given semester should contact the graduate coordinator during the first three weeks of the semester.

MASTER OF ARTS IN HISTORY

(30 semester hours)

Thesis Option

American History (6)

European History (6)

Non-Western World History (6)

Seminar (in American, European, or Non-Western) (3)

HIS 500 Methods and Materials of Research in History (3)

(May be waived with permission of chairperson or graduate coordinator)

HIS 691 Thesis (3-6)

History elective (1-3)

Nonthesis Option

American History (6)

European History (6)

Non-Western World History (6)

Seminar (in American, European, or Non-Western) (3)

HIS 500 Methods and Materials of Research in History (3)

(May be waived with permission of chairperson or graduate coordinator) History electives (6-9)

MASTER OF EDUCATION IN SOCIAL SCIENCE Concentration: History

(36 semester hours)

1. Professional education requirements

(See page 83.) 12 semester hours
2. History courses (under advisement) 15-18 semester hours

3. HIS 500 Methods and Materials of Research

in History 3 semester hours

4. HIS 650, 651, or 652 3 semester hours

5. Electives (professional education or academic)

1-3 semester hours

The Department of History has approved the following undergraduate courses for graduate credit when scheduled with the approval of the student's adviser and/or the department's chairperson: HIS 406, 411, 412, 415, 416, 420, 421, 422, 423, 425, 426, 427, 428, 435, 451, 455, 462, and 474. No more than six credits of 400-level course work may be used to satisfy graduate degree requirements.

COURSE DESCRIPTIONS HISTORY

See also social science (SSC)

Symbol: HIS

500 Methods and Materials of Research in History (3) Basic techniques and procedures in research; major types of research and methods for locating, evaluating, and interpreting evidence. The student develops a tentative outline, bibliography, and summary of an investigative procedure. Required of all degree-program students.

501 Studies in the History and Culture of South Asia (3) The Indian subcontinent's dominant political, cultural, and economic institutions. Features which contribute to an understanding of modern India and Pakistan.

505 Studies in the History and Culture of East Asia (3) The traditional basis for modern Chinese, Japanese, and Korean societies. The interaction between European and Asian cultures and resulting changes in East Asia.

509 Contemporary History of the Middle East (3) Recent history of major Middle Eastern societies; Iran and the oil situation; Israel and the Palestinian question; conflicting cultures.

511 Studies in the History and Culture of Emerging Africa (3) Emergence of modern African nationalism against the background of traditional African society and the legacy of European colonialism.

512 Independent Black Africa (3) The post-war experience of Sub-Saharan Africa, viewed in the

light of the end of European colonial administration and the growth of an independent African society.

515 The Cultural and Intellectual History of Latin America (3) Pre-Columbian art and thought, scholasticism, mercantilism, the Great Debate, Baroque architecture, Enlightenment, conservatism, liberalism, Romanticism, Modernism, Positivism, Jose Enrique Rodo, Aprismo, Mexican muralists, novel of social protest, existentialism, and music. Lineaments of the Latin-American mind.

516 Modern Mexico (3) Mexico during the 19th and 20th centuries; stress on the dramatic transformation of Mexico from early nationhood to modernity in the short period of a century and a half.

530 Problems in Medieval Civilization (3) Rise and fall of the Byzantine Empire, conquests of the Arabs and Turks, the crusades for the recovery of the Hoty Land; the religious orders and the universal aspirations of the Papacy.

531 The Renaissance (3) Political, social, and cultural transitions in Italy and Northern Europe, 1350-1550.

532 The Reformation (3) Major and minor Protestant leaders and their movements; effects on the evolving nation-states; the Church of Rome's response; Wars of Religion and Treaty of Westphalia; the Scientific Revolution.

533 Dynastic Europe 17th Century (3) Compares and contrasts political, economic, and social developments of two major dynastic powers, namely Spain and France, during the 17th century. 535 Nationalism and Democracy: 1815-1914 (3) Aftermath and effect of the French Revolutionary era; events brought on by the growth of nationalism and democracy; development of the industrial revolution. Roots of the First World War.

536 Europe Since 1914 (3) Twentieth-century Europe, with emphasis on causes of World War I: Europe between World War I and World War II; problems of contemporary Europe.

540 The Evolution of Modern Russia (3) A cultural approach to the historical development of Russia from the foundation of Kiev to the Revolution of 1917. Emphasis is on Russia's political and aesthetic uniqueness.

542 Women and Children in Early Modern Enrope (3) Focuses on the private and public life of women and children of diverse social status in various European countries. Special attention is given to changing social, religious, economic, and cultural attitudes and how they affected the lives of women and children.

545 Holocaust (3) The study of steps leading to the Holocaust (1933-1945), the Holocaust itself, and the aftermath. The rise of Nazism is included. 550 Colonial America; 1607-1763 (3)

Development of the 13 colonies of Anglo-America from their settlement to mid-18th century. Emphasis on a conceptual analysis of specific events and problems.

551 Revolutionary America: 1763-1789 (3)
American development from the mid-18th century

to the framing of the Constitution, with emphasis on the causes of the American Revolution and the evolution of American institutions and ideas throughout the period.

553 The Rise of the New Nation: 1789-1850 (3) A historiographical approach involving interpretations of the foundations and development of the Federalist Party, emergence of Jeffersonian Democracy, evolution of Jacksonian Democracy, and events of the Middle Period leading to the decade of controversy.

554 Civil War and Reconstruction: 1850-1877 (3) The war and its aftermath as the great watershed of United States national history. Emphasis on the conflicting interpretations of the causes, nature, and effects of the Civil War.

555 Emergence of Modern America: 1876-1923 (3) Rise of industry, labor, immigration, and new cultural patterns; emergence of new political alignments, rise of imperialism, development of liberalism and reform; America's struggle for neutrality and her participation in World War I.

556 America Since 1919 (3) The impact of urbanization and industralization on society, politics, and economics; the problems of wars declared and undeclared — and the various policies for peace.

557 Problems in American Constitutional Development (3) Selected problems in the development of American constitutional government. The progressive adaptation of the law to a changing social and economic order. Conflicts such as nationalism versus states' rights, and vested rights

versus police power.

558 Recent American Diplomatic History (3) American foreign policy in Europe, Asia, Latin America, and the Middle East from 1945 to the present. Objectives sought by the United States and the political, military, economic, and social policies pursued; origins of the Cold War.

559 American Urhan History (3) Research methods and approaches for studying the history of cities in America. Emphasis on quantitative analysis, including studies of urban population, social mobility, and voting patterns.

561 The Indian in America's Past (3) The dispossession of the American Indian: land seizures, wars and treaties, cultural contact; customs, mores, economic, and religious life of the Indian; assimilation and preservation of Indian culture.

601 Directed Readings in American History (3) A critical examination of significant works on selected topics in the field. PREREQ: Permission of graduate coordinator.

602 Directed Readings in European History (3) A critical examination of significant works on selected topics in the field. PREREQ: Permission of graduate coordinator.

603 Directed Readings in World and Regional History (3) A critical examination of significant works on selected topics in the field. PRLREQ: Permission of graduate coordinator.

650 Seminar in American History (3) Selected problems in American history. Subject announced in advance of each semester. PREREQ: HIS 500. 651 Seminar in European History (3) Selected

problems in European history. Subject announced in advance of each semester, PREREQ: HIS 500.

652 Seminar in History of the Nun-Western World (3) Selected problems in non-Western world history. Subject announced in advance of each semester. PREREQ: 111S 500.

660 Field Studies in History (3-6) A fully supervised learning experience, usually a tour, designed to expose students to the culture, artifacts, and research facilities of a given country or area.

690 Independent Studies in History (1-3)
Research projects, reports, and readings in history.
PREREQ: Approval of department chairperson.
691 Thesis (3-6)

SOCIAL SCIENCE

Symbol: SSC

502 Methods and Materials for Teaching Social Studies (3) Current practices and procedures; organization and planning; the use of classroom, library, and curriculum materials; testing, measurements, and evaluation; bibliographical sources for both teachers and students.

580 Ethnic Cultures Institute (3) An interdisciplinary offering, the institute considers the contributions of ethnic groups to the culture of the United States. Designed primarily for teachers, community action personnel, and students who wish to increase knowledge and skills for developing meaningful intergroup relationships and improving classroom instruction. Educators and community leaders take part.

Instructional Media

Until further notice, no new students will be admitted to the M.Ed., M.S., or instructional technology specialist certification program.

Kinesiology

206 Sturzebecker Health Sciences Center West Chester University West Chester, PA 19383 610-436-2260

Mr. Jones, Chairperson

Dr. Stevens, Coordinator of Graduate Studies

PROFESSORS

Monita M. Lank, Ph.D., University of lowa Monica P. Lepore, Ed.D., New York University Richard B. Yoder, M.A., Villanova University

ASSOCIATE PROFESSORS

Frances Cleland, P.E.D., Indiana University
Frank F. Fry, D.P.E., Springfield College
John Helion, Ed.D., Columbia University
Karen M. Koehler, Ed.D., University of North Carolina at
Greensboro

Susan W. Lubking, Ed.D., Temple University
Paul K. Smith, Ph.D., Southern Illinois University
Karin Volkwein, Ph.D., University of Tennessee
John Williams, Ph.D., University of London

ASSISTANT PROFESSORS

Emlyn H. Jones, M.Ed., West Chester University

Sheri A. Melton, Ph.D., Louisiana State University W. Craig Stevens, Ph.D., Temple University Raymond Zetts, Ed.D., University of Georgia—Athens

Program of Study

The Department of Kinesiology offers programs leading to a master of science degree in physical education with concentrations in general physical education, and exercise and sport physiology. A master of science in administration degree with a concentration in sport and athletic administration also is offered. The master of science degree in physical education, general physical education concentration (research project track), enriches academic preparation for teaching in the public schools or for obtaining employment in the various professions related to physical education. The master of science degree in physical education, exercise and sport physiology concentration (research report track), enriches academic preparation for working in adult fitness, cardiac rehabilitation, and other clinical programs. Both master of science degrees in physical education (thesis track) are designed primarily to meet the individual needs of graduate students who want to pursue graduate work beyond the master's degree or a career in research. It also may prepare personnel for staff positions in education, government, and industry. The sport and athletic administration concentration in the master of science in administration program is designed to provide academic preparation for those persons interested in entering the field of sport and athletic administration, and to assist in upgrading the credentials of those persons presently in the fields of sport and athletic administration.

Certification in driver education and safe living also is offered by the Department of Kinesiology, as a summer program.

The Professor Russell Sturzebecker Scholarship

The graduate division in the School of Health Sciences in the Department of Kinesiology administers the Professor Russell Sturzebecker Scholarship. Through the generosity of Mr. John F. Unruh, a \$100 award is made each semester to a "worthy and needy" graduate student in health and physical education. The award is donated by Mr. Unruh in honor of Professor Sturzebecker.

The recipient must be working full time in the field of health and physical education and must be a part-time student at West Chester University working towards a master's degree in his or her professional field.

Graduate students who most the shows griteria are invited to submit a

Graduate students who meet the above criteria are invited to submit a letter of application for the scholarship along with a resume of their professional and academic status. These documents should be submitted to the chairperson of the Department of Kinesiology on or before December 15 for the spring semester award and on or before March 15 for the fall semester.

The Graduate Scholarship

The graduate division of the Department of Kinesiology administers a graduate scholarship. The amount of money awarded may vary somewhat from year to year depending on the funds available, but it is anticipated that the award will be approximately \$300 each year. Selection criteria include scholarship, citizenship and character, leadership, need, and ability in, and/or contribution to, specific areas of health or physical education.

Application forms are available from the Department of Kinesiology, 206 Sturzebecker Health Sciences Center.

Communication with the Department

All inquiries and other communications regarding the graduate program in physical education should be addressed to the coordinator of graduate studies and sent to the department address found at the beginning of this section.

Comprehensive Examination

The comprehensive examination for graduate students in physical education is administered twice a year, in early March and late October. Each examination consists of an elective course portion, given for two hours on a Tuesday, and the required course portion, given for two hours on the following Thursday.

Students who want to take the examination must be currently enrolled, admitted to degree candidacy and should have completed all required course work. In addition, students should have completed the majority of their elective requirements. A letter of intent to take the comprehensive examination should be filed with the coordinator of graduate studies. Letters of intent should be filed by February 15 for the March examination or September 15 for the October examination, respectively. Upon receipt of the letter of intent and with the approval of the coordinator, students will be sent a letter explaining the details, time, and place of the examination.

MASTER OF SCIENCE PROGRAM Concentration in General Physical Education

Admission Requirements

Applicants must meet the basic requirements of the University, given under Admission, and must present either a baccalaureate degree earned in their anticipated major area of health or health and physical education, or equivalent preparation in a related field.

Thesis Track

- 1. Bachelor's degree: physical education or related field
- 2. GPA: 2.75 or higher on a 4.0 scale
- 3. GRE: 1000 (combined verbal and math) or higher recommended
- 4. Undergraduate prerequisites: A. Human Anatomy

- B. Human Physiology
- C. Kinesiology
- D. Exercise Physiology
- 5. Approval of application by the department graduate committee

Research Report Track

- 1. Bachelor's degree: physical education or related field
- 2. GPA: 2.5 or higher on a 4.0 scale
- 3. GRE: 900 (combined verbal and math) or higher recommended
- 4. Undergraduate prerequisites:
 - A. Human Anatomy
 - B. Human Physiology
 - C. Kinesiology
 - D. Exercise Physiology
- 5. Approval of application by the department graduate committee

Admission to M.S. Degree Candidacy

During the 12 to 15 hours of precandidacy, students must complete any three of the departmental core courses with a minimum GPA for these and all other courses of 3.0.

Students must apply for candidacy within one semester after completing 12-15 hours of precandidacy.

Requirements for the M.S. Degree

- Satisfactory completion of the M.S. curriculum with a minimum GPA of 3.0
- Satisfactory performance on written and/or oral comprehensive examination
- 3. Successful completion of the thesis or research project
- 4. Oral defense of the thesis (for thesis track only)

CURRICULUM

(33-34 semester hours)

1. Degree Core

21 semester hours

KIN 572 Advanced Motor Learning (3)

KIN 580 Sociological and Psychological Aspects of Sport and Physical Education (3)

KIN 585 Biomechanics (3)

KIN 600 Research Methods in Health, Physical Education, and Recreation (3)

K1N 601 Statistical Design for Research and Evaluation in Physical Education (3)

KIN 602 Advanced Philosophy of Sport and Physical Education (3)

K1N 681 Advanced Exercise Physiology (3)

2. Additional Degree Requirements -

Thesis Track

12 semester hours

KIN 608 Thesis Seminar (3)

KIN 610 Thesis (3)

Electives selected under advisement (6)

Additional Degree Requirements -

Research Report Track

13 semester hours

KIN 606 Research Report Seminar 1 (2)

KIN 607 Research Report Seminar II (2)

Electives selected under advisement (9)

The thesis proposal must be formally approved during Thesis Seminar (KIN 608) before the student may register for Thesis (KIN 610).

MASTER OF SCIENCE PROGRAM Concentration in Exercise and Sport Physiology

Admission Requirements

Applicants must meet the basic requirements of the University, given under Admission, in addition to the following requirements.

Thesis Track

- 1. Bachelor's degree: physical education or related field
- 2. GPA: 2.75 or higher on a 4.0 scale
- 3. GRE: 1000 (combined verbal and math) or higher recommended
- 4. Undergraduate prerequisites:
 - A. Human Anatomy
 - B. Human Physiology
 - C. Kinesiology
 - D. Exercise Physiology

- E. Fitness Assessment/Exercise Prescription or Electrocardiography and Stress Testing
- 5. Approval of application by the department graduate committee

Research Report Track

- 1. Bachelor's degree: physical education or related field
- 2. GPA: 2.5 or higher on a 4.0 scale
- 3. GRE: 900 (combined verbal and math) or higher recommended
- 4. Undergraduate prerequisites:
 - A. Human Anatomy
 - B. Human Physiology
 - C. Kinesiology
 - D. Exercise Physiology
 - E. Fitness Assessment/Exercise Prescription or Electrocardiography and Stress Testing
- 5. Approval of application by the department graduate committee

Requirements for Admission to Degree Candidacy

During the 12 to 15 hours of precandidacy, students must complete any three of the departmental core courses with a minimum GPA for these and all other courses of 3.0.

Students must apply for candidacy within one semester after completing 12-15 hours of precandidacy.

Requirements for the M.S. Degree

- 1. Satisfactory completion of the M.S. curriculum with a GPA of 3.0
- 2. Satisfactory performance on written and/or oral comprehensive examination
- 3. Successful completion of the thesis or research project
- 4. Oral defense of the thesis (for thesis track only)

CURRICULUM

(33-40 semester hours)

Required courses

1. Degree Core
KIN 572 Advanced Motor Learning (3)

KIN 585 Biomechanics (3)

KIN 600 Research Methods in Health, Physical Education, and Recreation (3)

KIN 601 Statistical Design for Research and Evaluation in Physical Education (3)

KIN 606* Research Project Seminar I (2) PREREQ: KIN 600 KIN 607* Research Project Seminar II (2) PREREQ: KIN 600

KIN 607* Research Project Seminar II (2) PREREQ: KIN 600 and KIN 606

KIN 608** Thesis Seminar (3) PREREQ: KIN 600

K1N 610** Thesis (3) PREREQ: KIN 600 and KIN 608

*Research report track only

**Thesis track only

2. Concentration Core

9 semester hours

KIN 681 Advanced Exercise Physiology (3)

KIN 687*** Applied Muscular Physiology (3) PREREQ: KIN 681

K1N 688*** Applied Cardiovascular Physiology (3) PREREQ: KIN 681

***Open only to exercise physiology concentration majors

3. Electives 6-9 semester hours
An additional nine credit hours are required for the research report

An additional six credit hours are required for the thesis track.

4. Internship 6 semester hours
Internship experience may be required of students in the research
report track who did not have comparable experience as an undergraduate and/or have no work experience in their chosen field of

KIN 611 Intern Study (3)

KIN 612 Intern Study (3)

MASTER OF SCIENCE IN ADMINISTRATION Concentration in Sport and Athletic Administration

Admission Requirements

Applicants must submit official undergraduate transcripts denoting: receipt of bachelor's degree and majors from all undergraduate insti-

tutions attended; scores from the Miller Analogies Test, Graduate Record Examination or Graduate Management Admissions Test; an essay with a clear focus on career plans; and two letters of reference from professional supervisors that address the applicant's administrative potential. All application materials are to be submitted to the Office of Graduate Studies and labeled: "Attention, M.S.A. Application of (student's name)." After the Office of Graduate Studies has received these materials, the M.S.A. director will schedule an admissions interview with the applicant.

Admission to M.S. Degree Candidacy

During the 15 semester hours of precandidacy, majors in the sport and athletic administration concentration must complete three of the administrative core courses, and two of the sport and athletic administration core courses with a minimum GPA for these courses of 3.0.

Requirements for the M.S. Degree

- 1. Satisfactory completion of the M.S. in administration curriculum shown below with a minimum overall GPA of 3.0.
- 2. Satisfactory performance on the written and/or oral comprehensive examination.

CURRICULUM

(34-39 semester hours)

1. Administrative Core 18 semester hours

ADM 501 Administrative Theory and Environment (3)

ADM 502 Computers for Managers (3)

ADM 503 Accounting and Budgeting (3)

ADM 504 Communication for Administrators (3)

ADM 505 Organizing Human Resources (3)

ADM 507 Liability for Managers (3)

2. Sport and Athletic Administration Core

A. Option #1 - Research Scholarship 16-19 semester hours

KIN 513 Theories and Principles of Sport Management (3)

KIN 513 Theories and Principles of Sport Management (3)

K1N 514 Problems and Issues in Sport Management (3)

KIN 600 Research Methods in Health, Physical Education, and Recreation (3)

KIN 601 Statistical Design for Research and Evaluation in Physical Education (3)

KIN 606 Research Project Seminar I (topics defined by student's career goals) (2)

KIN 607 Research Project Seminar II (2)

KIN 611 Intern Study I (under advisement) (3)

The research project consists of a two-semester sequence (KIN 606 and 607) which must be preceded by successful completion of KIN 600 (Research Methods in Health, Physical Education, and Recreation).

B. Option #2 - Applied Management Scholarship

21 semester hours

(1) Must take all 18 semester hours

KIN 513 Theories and Principles of Sport Management (3)

KIN 514 Problems and Issues in Sport Management (3)

KIN 600 Research Methods in Health, Physical Education, and Recreation (3)

KIN 601 Statistical Design for Research and Evaluation in Physical Education (3)

KIN 611 Intern Study I (3)

KIN 612 Intern Study II (3)

(2) Must select three semester hours

KIN 580 Sociological and Psychological Aspects of Sport and Physical Education (3)

KIN 602 Advanced Philosophy of Sport and Physical Education (3)

CERTIFICATION PROGRAM IN DRIVER EDUCATION AND SAFE LIVING

(Highway Safety and General Safety Education)

Richard B. Yoder, Coordinator

A teacher's certificate may be extended to include education for safe living (highway safety and general safety education) by completing 12 semester hours of course work in the Department of Kinesiology.

Courses are scheduled during summer months only. Contact the coordinator for further information.

Curriculum

KIN 561 Seminar in Driver Education

· KII

KIN 660 History and Philosophy of Safety Education and Principles of Accident Prevention

KIN 661

Contemporary Practices and Program Evaluation in Safety Education

KIN 662 Problems in Traffic and Driver Education

COURSE DESCRIPTIONS KINESIOLOGY

Symbol: KIN unless otherwise indicated 500 Contemporary Problems in Physical Education, Recreation, and Athletics (3) Problems in teaching health, physical education, and recreation; in-service aspects; factors and variables that influence solutions of these problems.

513 Theories and Principles of Sport Management (3) This course is designed to pro-

Management (3) This course is designed to provide an overview of the management responsibility of the sport administrator, including planning, organizing, staffing, directing, and controlling the sport enterprise. Emphasis will be placed on personnel, financial concerns, facility management, and public relations.

514 Problems and Issues in Sport Management (3) This course is designed to provide an overview of contemporary problems and issues in sport management, including an analysis of sport trends with a review of sport-governing agencies and organizations and their affect on athletic department programs.

550 Elementary Physical Education Workshop
(3) Orientation for the teaching of elementary
physical education. Principles and practices;
appropriate activities for various grade levels.

551 Elementary Physical Education Recreation Music Workshop (2) Leading and teaching rhythmic activities and singing in elementary physical education and recreation. Fundamental level. Instruction programmed music textbook; piano and guitar chords. Creating and teaching recreational and singing games.

552 Learning on the Move (3) Movement education and perceptual motor theory. Activities for helping children achieve their maximum development.

561 Seminar in the Four-Phase Program of Driver Education (3) In-service experience for driver education teachers in the classroom. Behind the wheel (BTW), multicar method, and simulation.

572 Advanced Motor Learning (3) An investigation of the theories, research, and practical applications of the processes and conditions involved in the teaching and learning of physical skills.

580 Sociological and Psychological Aspects of Sport and Physical Education (3) Social, psychological, and cultural factors influencing sport and physical education. Discussion of pertinent issues and research applications.

581 Adapted Physical Education (3) Techniques for a program of adapted physical education in the public school. Application of activities to benefit the child with a temporary or permanent disability. 585 Biomechanics (3) A review of, or introduction to, the basic principles of biomechanics and the application of those principles to research and teaching.

600 Research Methods in Health, Physical Education, and Recreation (3) Techniques of research applied to the field of health, physical education, and recreation.

601 Statistical Design for Research and Evaluation in Physical Education (3) The practical and theoretical application of the basic concepts of elementary statistics as they relate to evalnative procedures, research, and teaching in physical education.

12 semester hours

602 Advanced Philosophy of Sport and Physical Education (3) Major philosophical theories of sport. Discussion of various conceptual, movement/aesthetic, and social-political issues.
603 Professional Literature Seminar (3) Provides students with the skills necessary to review and critically analyze the professional literature and current findings in physical education; useful for the student planning to conduct

604 Administration and Supervisory Practices for Health, Physical Education, Recreation, and Athletics (3) Nature of the positions of directors or supervisors of physical education, recreation, and athletics. Job specifications; operational principles and procedures.

605 Curriculum in Physical Education (3) Trends in health and physical education curricula at the elementary, secondary, and college levels. Surveys, reports, and analyses of curriculum practices.

606 Research Project Seminar I (2) A course for master's candidates who select the report option. Students select a problem for the research report, review literature, develop procedures, and collect data. They are expected to complete the first three chapters of their research reports during Seminar I. PREREQ: KIN 600.

607 Research Project Seminar 11 (2) Master's candidates register for this course after completing Seminar 1. In this course, students complete chapters four and five of the research report. PREREQ: KIN 606.

608 Thesis Seminar (3) A course for the student who selects the thesis option. The candidate selects a topic, reviews the literature, develops procedures, and prepares a proposal acceptable to the thesis committee. They then register for KIN 610. PREREQ: KIN 600.

609 Independent Study and Special Projects (1-3) Students select independent study projects and develop proposals. These projects may be in support of students' research or related to their vocations. The proposals must be accepted and approved by the coordinator of graduate studies in the semester prior to registration for independent study.

610 Thesis (3) Students must register for the thesis after completion of K1N 608. One additional enrollment in KIN 610 may be allowed with the approval of the graduate coordinator.

PREREQ: KIN 608.

611-612 Intern Study (3) (3) For the M.S.A. student in athletic administration who needs or desires practical experience in administering athletic programs. (The student may elect 3-6 credits of internship experience.)

650 The Child and Physical Education (3)
Contributions of physical education to a child's physical, social, emotional, and intellectual growth and to developmental needs and interests. The influences of various activities on growth and development.

660 History and Philosophy of Safety Education and Principles of Accident Prevention (3) The safety movement in the United States and other countries. The place of safety education in modern living; philosophies of safety-education leaders; aecident causation and prevention (their research implications). Background for administering school, civil defense, and emergency safety programs.

661 Contemporary Practices and Program
Evaluation in Safety Education (3) Current practices, evaluation of programs, and research of current literature in safety education. Techniques for selecting, constructing, and using instruments for evaluating safety-education programs. Problem-solving projects.

662 Problems in Traffic and Driver Education (3) Contemporary curriculum and current practices in driver and traffic education, enforcement of traffic laws and regulations, and engineering problems. Problem-solving projects.

680 Scientific Principles of Coaching (3) Recent trends in theories and techniques of teaching sports. Mechanical principles of efficient movement. Research related to competitive performance. Specialists serve as guest panelists.

681 Advanced Exercise Physiology (3) Clinical and laboratory use of exercise in evaluating, maintaining, and modifying human physiological processes: growth development, metabolism, and weight control; cardiovascular and respiratory functions in health and disease; and neuromuscular integration and performance. Stress physiology, and training and conditioning.

685 Women's Exercise and Sports (3) The physiological, psychological, and sociological effects of exercise and sport on women.

686 Organization and Management of Adult Fitness Programs: Clinic/Seminar (3) An indepth analysis and practical experience in organizing and managing adult fitness programs.

687 Applied Muscular Physiology (3) This course is designed to provide an in-depth understanding of the structure and function of skeletal muscle and its responses and adaptations to exercise.

688 Applied Cardiovascular Physiology (3) This course is designed to provide an in-depth understanding of the mechanisms underlying cardiovascular function and the effects of acute and chronic exercise on these mechanisms. 689 Clinical Exercise Physiology (3) This course is designed to provide students with an understanding of the role of the exercise professional in clinical settings. Emphasis is given to the interaction between exercise and the more prevalent diseases and conditions of altered health status (e.g., cardiovascular disease, respiratory disease, diabetes, obesity, osteopathic disease, pregnancy, back pain, and others).

690 Exercise and the Older Adult (3) A course designed to prepare professionals to assess fitness levels of persons over the age of 50 and scientifically design exercise and fitness programs to meet the specific needs of the older participant.

SERVICE COURSES

The following courses are open to students in all curricula, with no prerequisite in health or physical education required:

KIN 550, 551, 552, 561, 580, 581, 585, 605, 650, 660, 661, 662, 680, and 685.

Leadership for Women

103 Ruby Jones Hall West Chester University West Chester, PA 19383 610-436-2746 or 610-436-2464

Dr. Rengert, Program Concentration Adviser

Dr. Milne, Director, Master of Science in Administration

Dr. Schlau, Director, Women's Studies

WOMEN'S STUDIES GROUP

PROFESSORS

Diane O. Casagrande, Ph.D. (Communication Studies)

Anne Dzamba, Ph.D. (History) Elizabeth Larsen, Ph.D. (English)

Mary McCullough, Ph.D. (Communication Studies)

Lynette F. McGrath, Ph.D. (English) Arlene Rengert, Ph.D. (Geography)

Stacey Schlau, Ph.D. (Foreign Languages)

Richard J. Webster, Ph.D. (History)

ASSOCIATE PROFESSORS

Helen Berger, Ph.D. (Sociology) Marita R. Boes, Ph.D. (History)

Celia Esplugas, Ph.D. (Foreign Languages)

Elizabeth A. Giangiulio, M.Ed. (Career Development)

Anne Herzog, Ph.D. (English) Jane Jeffrey, Ph.D. (English)

Deborah Mahlstedt, Ph.D. (Psychology)

Ruth Porritt, Ph.D. (Philosophy)
Geetha Ramanathan, Ph.D. (English)
Frauke Schnell, Ph.D. (Political Science)
Karin Volkwein, Ph.D. (Kinesiology)

ASSISTANT PROFESSORS

Jean Piper Burton, M.L.S. (Library Services)

Robin Garrett, M.S.N. (Nursing and Director, Women's Center)

Leadership for women is a concentration within the master of science in administration program. It addresses organizational power,

which sometimes is inequitable for men and women of equal training and talent. It recognizes that women who seek to advance to leadership positions often become change agents within the organization, and sometimes within their families and community as well. This concentration consists of four required and two elective courses. The required courses involve reading and study of feminist perspectives on initiating, responding to, and managing change. They examine theories and practices that clarify values. They contain models and strategies for resolving the conflicts and logistical dilemmas vital to a successful administrative career that differs from conventional sex role ascription of status and power. Students in other M.S.A. concentrations also may take these required courses.

PSY 465/565 Psychology of Women (3)

WOS 530 Women in Leadership: Critical Issues (3)

WOS 531 Management of Leadership: Laboratory Course (3) WOS 533 The Woman Executive: Research Seminar (3)

The student, with the approval of the adviser, chooses two electives appropriate to specific career interests. Examples include:

ADM 612 Internship (3-6)

ECO 503 Economic Role of Women (3)

ENG 508 Writing Seminar (3)

GEO 530 Demographic Analysis (3)

PSC 515 Women in Politics (3)

PSC 552 Civil Liberties and Civil Rights (3)

WOS 539 Independent Study (3)

Comprehensive examination in concentration is required.

Students in the degree program also take six required courses in the administration core:

ADM 501 Administrative Theory and Environment (3)

ADM 502 Computers for Managers (3) ADM 503 Accounting/Budgeting (3)

ADM 504 Communication for Administrators (3)

ADM 505 Organizing Human Resources (3), and either

ADM 506 Budgetary Process (3), or ADM 507 Liability for Managers (3)

COURSE DESCRIPTIONS WOMEN'S STUDIES

Symbol: WOS

530 Women in Leadership: Critical Issues (3) Survey of the literature that defines and discusses critical issues for the woman leader. Some issues center around lifestyle choices and conflicts (loneliness, family pressure) and others around organizational barriers and alternative means to over-

come them.

531 Management of Leadership: Laboratory Course (3) The study and practice of alternative leadership modes. The course uses workshop techniques to teach speech, small-group dynamics, and other communication skills, and problem-solving strategies.

533 Woman Executive: Research Seminar (3) A seminar that requires each student to complete an original project on the goals, problems, choices, or successes of women in middleor upper-level management positions. The use of case studies, surveys, oral history, and other research techniques will be explored. An appropriate internship may be substituted for this course. •539 Independent Study (3) A project to be

•539 Independent Study (3) A project to be developed independently by the student working with a specific instructor.

· This course may be taken again for credit.

Linguistics

538 Main Hall

West Chester University

West Chester, PA 19383 610-436-2269

(Interdisciplinary Area)

Dr. Godfrey, Coordinator

LINGUISTICS GROUP

Diane O. Casagrande, Professor (Communication Studies) W. Stephen Croddy, Professor (Philosophy) Dennis L. Godfrey, Associate Professor (English) John T. Kelly, Associate Professor (English) Cheri L. Micheau, Associate Professor (English) Garrett Molholt, Associate Professor (English) Paul Stoller, Professor (Anthropology-Sociology)

Although West Chester presently offers no degree in linguistics, students interested in developing a concentration in this area may elect courses from the following list or from additional related courses offered by the departments of Communication Studies, Communicative Disorders, English, Foreign Languages, and Philosophy. For additional information, consult the coordinator.

COURSE DESCRIPTIONS LINGUISTICS

Symbol: LIN

501 Introduction to Linguistics (3) Basic concepts of language description, classification, change, reconstruction, dialectology, and sociolinguistics

503 Phonology and Morphology (3) Phonetics, phonemics, morphophonemics, and the morphological composition of words.

504 Syntax (3) A comparative study of the various modern approaches to the study of grammar. PREREO: ENG 575 or LIN 501.

505 Transformational Grammar (3) Basic con-

cepts of transformational theory and their application in teaching. PREREQ: ENG 575 or LIN 501. 506 Meaning in Language (also PHI 506) (3) See PHI 506.

512 Descriptive Linguistics (3) Analysis of the phonemic, morphological, and syntactic features of typologically divergent languages. Procedures for eliciting linguistically relevant data about a language from a native speaker. PREREO: LIN 503. 515 Language, Thought, and Behavior (also

COM 515) (3) See COM 515.

523 Philosophy of Language (also PHI 523) (3) See PHI 523.

540 Sociolinguistics (3) The study of language in its social context: the ethnography of communica-

tion; language and society, social classes, ethnic groups, politics, sex, and education. PRL-REQ: LIN 501 or permission of instructor.

555 Psycholinguistics (3) A study of the relationships between language and thought. Models of language, communication theory, and learning theory. Emphasis on natural language development and hilingualism.

580 Language and Culture (3) Language as an aspect of culture; linguistic-perceptual-cognitive categories, social and psychological aspects of language. PRERI.() LIN 501 or permission of instructor.

590 Independent Study (1-3)

Literacy

105B Recitation Hall West Chester University West Chester, PA 19383 610-436-2877

Dr. Kletzien, Chairperson and Graduate Coordinator Dr. Szabo, Assistant Chairperson

PROFESSOR

Patricia E. Grasty-Gaines, Ed.D., Temple University

ASSOCIATE PROFESSORS

Dena Beeghly, Ed.D., University of Georgia Daniel Darigan, Ph.D., University of Oregon James Thomas Gill, Ed.D., University of Virginia Sharon B. Kletzien, Ph.D., Temple University Ruby Peters, M.S.Ed., Temple University Robert J. Szabo, Ed.D., Lehigh University

ASSISTANT PROFESSORS

Susan Caroff, Ph.D., Purdue University
Althier Lazar, Ph.D., University of Pennsylvania

Programs of Study

The Department of Literacy offers the master of education degree with a major in reading and reading specialist certification. Students who complete either program are recommended for Pennsylvania certification as a reading specialist. These programs prepare candidates to serve in special reading positions and as classroom teachers of reading in elementary or secondary schools. In 1997, the Pennsylvania State Board of Education implemented revisions to the Pennsylvania School Code. These revisions require all students who apply for Pennsylvania reading specialist certificates to pass competency tests.

As changes are made in requirements for reading specialist certification, it is the student's responsibility to satisfy the new requirements.

After the student's application has been submitted to West Chester University's Office of Graduate Studies and Sponsored Research and appropriate transcripts have been received, the student will be mailed information regarding the program and advisement.

Admission Requirements

1. Applicants are expected to have an undergraduate degree from an accredited college or university. In addition, they must meet an undergraduate grade point average (GPA) entry requirement of 3.0 on a scale of 4.0.

Students who cannot meet this requirement must take either the Miller Analogies Test (MAT) or the Graduate Record Examination (GRE). A satisfactory score as determined by the department on the GRE (verbal and quantitative sections) or MAT will demonstrate the sections of the GRE (verbal and quantitative sections).

- strate a student's academic competence in lieu of the required GPA.
- 2. Applicants must possess initial teacher's certification.
- Courses required within the precandidacy period are EDF 500;
 EDR 510, 514, 516; and one additional course from the prescribed program.
- Students must maintain an overall GPA of 3.0 during the pre-candidacy period.

Degree Requirements

In addition to meeting degree requirements of the University, the candidate must:

- Successfully complete the reading curriculum and any additional courses that may be required by the reading faculty. Workshops will not be accepted to satisfy this requirement.
- 2. Achieve an overall GPA of at least 3.0.
- Perform satisfactorily on the comprehensive examination in reading. Students are responsible for meeting all requirements by the specified time.

The Comprehensive Examination

Students are eligible for the comprehensive examination when they have completed all prescribed work and been recommended by the adviser. The examination is given the first Saturday in February, the last Saturday in June, and the first Saturday in October. Application for the examination must be made in writing to the graduate coordinator by December 1 for the February examination, April 1 for the June examination, and July 1 for the October examination.

Candidates who fail the comprehensive examination are permitted one re-examination within a two-year period. Candidates who fail the re-examination are dropped from the degree program.

MASTER OF EDUCATION IN READING

(36 semester hours)

 Professional Education Requirements 6 semester hours EDF 500 Methods and Materials of Research in Education (3) or

EDF 501 Methods and Materials of Research for Elementary Education (3)

and:

EDF 510 Educational Foundations (3)

EDF 589Sociological Foundations of Education (3)

H. Reading Education Requirements 27 semester hours
EDR 510 Foundations of Reading Instruction: K-12 (3)
EDR 514 Reading in the Content Areas (3)

LDR 515 Teaching Reading with Children's and

Adolescents' Literature (3) EDR 516 Reading Disabilities (3)

EDR 517 Current Practices in Teaching Developmental and Corrective Reading (3) EDR 519 Teaching Reading to Culturally Diverse Students (3)

EDR 521 Reading Clinic Practicum and Seminar 1 (3)

EDR 522 Reading Clinic Practicum and Seminar II (3)

EDR 541 Organization and Operation of Reading Programs: K-12 (3)

Area of Electives

3 semester hours Selected, under advisement, from:

EDA 571

EDE 522, 543, 548, 549, 551, 553, 555, 560

EDR 523, 526, 540, 542

All students must complete a course in child and adolescent development. Any student who enters the program without having completed such a course at the undergraduate or graduate level should take EDE 551 as an elective.

READING SPECIALIST CERTIFICATION

(30 semester hours)

Requirements for the certification program:

- 1. The student must possess an Instructional I Certificate.
- 2. Courses required within the first 15 hours are EDR 510, 514, 516, and 517
- 3. The student must maintain an overall GPA of 3.0.
- 4. In order to obtain the certificate, the student must successfully complete the master of education in reading program, except that the student is not required to take the two courses in professional education. Workshops will not be accepted to satisfy this requirement.
- 5. The student must perform successfully on the comprehensive examination.

COURSE DESCRIPTIONS ELEMENTARY EDUCATION

Symbol: EDE

522 Teaching the Communication Skifls

(3) Strategies for teaching the language arts. Methods, materials, and resources for organizing creative programs in school settings.

549 Theory and Trends in the Language Arts (3) Analysis and evaluation of language arts programs, including reading in the modern elementary school. PREREQ: EDE 548.

READING

Symbol: EDR

510 Foundations of Reading Instruction:

K-t2 (3) Psychology and pedagogy of reading instruction. The nature of the reading process; the nature of the learner; skill development; instructional strategies.

514 Reading in the Content Areas (3) Reading skills, reading problems, teaching techniques, and reading activities in content subjects at the elementary and secondary levels. PREREQ: EDR 510 or permission of instructor.

515 Teaching Reading with Children's and Adolescents' Literature (3) Based on the philosophy that literature should be an integral element of reading programs. The emphasis is on fostering wide reading and response to literature in K-12 reading programs. Students will learn instructional strategies and develop materials and a selected

bibliography. PREREQ: EDR 510 and 514. 516 Reading Disabilities (3) The nature of reading disability, and diagnosis and remediation of reading problems. PREREQ: EDR 510.

517 Current Practices in Teaching Developmental and Corrective Reading

(3) Developmental and corrective reading instruction. Attention is given to diagnostic procedures and resulting appropriate instruction. PREREQ: EDR 510, 514, 515, 516, and either graduate or undergraduate credits in child and adolescent development.

519 Teaching Reading to Culturally Diverse Students (3) Historical, cultural, and educational contexts of literacy, language, and learning as they relate to reading instruction. PREREQ: EDR 516, 517, or permission of instructor.

521 Reading Clinic Practicum and Seminar 1 (3) A laboratory course in the diagnosis of reading difficulties. Major attention given to diagnosing corrective cases and writing case reports. PRE-REO: EDR 517 and 519.

522 Reading Clinic Practicum and Seminar II (3) Continuation of EDR 521. Emphasis placed on developing specific skills and techniques for correcting various types of reading disability cases. PREREO: EDR 521.

523 Reading as a Language Process (3) Basic concepts from areas of phonology, morphology, syntax, semantics, sociolinguistics, dialectology, and psychology will be related to the teaching of reading in grades K-12.

526 Emerging Literacy and Beginning Reading: A Whole Language

Approach (3) Concerned with young children's literacy development from preschool through the primary grades. Emphasis on instructional recommendations and implementations for a range of abilities. Included are supervised one-on-one and/or small-group teaching experiences. PRE-REQ: EDR 510 or permission of instructor.

540 Seminar in Reading (3) Critical examination of trends, opinions, and current research in the teaching of reading. PREREQ: EDR 516 or permission of instructor.

541 Organization and Operation of Reading Programs: K-12 (3) Practical application of the reading specialist's role in organizing and operating K-12 reading programs. Emphasis on the use of the total school community in meeting individual reading needs. PREREQ: EDR 522 or permission of instructor.

542 Seminar in Reading Research (3) A seminar in the basic techniques and sources of research in reading. Exposure to significant research in the field. PREREQ: EDF 501 or permission of instructor

590 Independent Study (1-6) Individual investigation and exploration of related reading research. Topic must be approved by the supervising instructor prior to registration.

Management-See Business Marketing-See Business

Mathematics

323 Anderson Hall West Chester University West Chester, PA 19383 610-436-2440

Professor Frank Milliman, Interim Chairperson Dr. Kerrigan, Coordinator of Graduate Studies 610-436-2351

PROFESSORS

Richard G. Branton, Ph.D., University of Pennsylvania Frank Grosshans, Ph.D., University of Chicago John J. Kerrigan, D.Ed., Temple University Sebastian S. Koh, Ph.D., University of California, Berkeley James E. L'heureux, Ph.D., Louisiana State University Eli M. Mandelbaum, Ph.D., University of Pennsylvania Waclaw Szymanski, D.Sc., Polish Academy of Sciences

ASSOCIATE PROFESSORS

Gail M. Gallitano, Ed.D., Columbia University Shiv K. Gupta, Ph.D., Case Western Reserve University Jozsef Horvath, Ph.D., Yale University Frank Milliman, A.M., Columbia University Joseph Moser, M.S., Purdue University Francoise E. Schremmer, Ph.D., University of Pennsylvania Lin Tan, Ph.D., University of California, Los Angeles Paul Wolfson, Ph.D., University of Chicago

ASSISTANT PROFESSORS

Julie A. Belock, Ph.D., Lehigh University Peter Glidden, Ph.D., Columbia University Clifford Johnston, Ph.D., Temple University Michelle Merriweather, Ph.D., American University

Programs of Study

The Department of Mathematics offers the master of arts degree with options in mathematics, and mathematics education.

The first option is for students interested in furthering their mathematical background. It provides the foundation for continued work in mathematics leading to the Ph.D. in mathematics.

The second option is primarily directed to teachers of mathematics who wish to strengthen their background in mathematics and mathematics education; in addition, it provides the foundation for the doctor of arts, doctor of education, or the doctor of philosophy in mathematics education.

Admission to the M.A. Program

Mathematics Education Option

In addition to meeting the basic admission requirement of the University, applicants must have a bachelor's degree with a mathematics major and at least provisional teacher certification (Level 1 certification). Applicants must schedule an interview with the graduate coordinator of mathematics education prior to enrollment. Deficiencies, as determined by the graduate coordinator, may be removed by successfully completing appropriate course(s). Applicants will take the Graduate Record Examination (GRE).

Mathematics Option

In addition to meeting the basic admission requirements of the University, applicants must schedule an interview with the graduate coordinator prior to enrollment. Applicants must have a minimum of 30 semester hours of mathematics, including a full treatment of calculus, at least one advanced undergraduate course in modern algebra, and one in advanced calculus. Deficiencies in these areas may be removed by successfully completing appropriate courses. Applicants will take the Graduate Record Examination (GRE).

Requirements for the M.A. Degree

In addition to completing the course requirements shown below, candidates must pass a comprehensive oral or written examination.

MASTER OF ARTS IN MATHEMATICS

Mathematics Education Option

(33 semester hours)

One three-credit course in each:

12 semester hours

MTE 507 Foundations of Secondary Mathematics Education (3)

MTE 508 Junior High School Mathematics - Curriculum,

Instruction, and Assessment (3)

MTE 512 Senior High School Mathematics - Curriculum, Instruction, and Assessment (3)

MTE 604 Research Seminar (3)

One three-credit course in each:

15 semester hours

MAT 515 Algebra I (3)

MAT 521 Discrete Mathematics and Graph Theory (3)

MAT 532 Geometry I (3)

MAT 545 Real Analysis I (3)

STA 523 Mathematical Statistics 1 (3)

Two three-credit electives:

6 semester hours

One to be a continuation of real analysis, algebra, or geometry.

One to be chosen from:

MAT 503 History of Mathematics (3)

MAT 514 Theory of Numbers (3)

MAT 516 Algebra II (3)

MAT 533 Geometry II (3)

MAT 546 Real Analysis II (3)

MAT 570 Mathematical Models in the Life, Physical, and Social Sciences (3)

MAT 575 Complex Analysis I (3)

STA 524 Mathematical Statistics II (3)

(Elective courses to be scheduled in advance on a rotating basis.)

Mathematics Option

(30 semester hours)

One three-credit course in each:

21 semester hours

MAT 515 Algebra 1 (3)

MAT 545 Real Analysis I (3)

MAT 575 Complex Analysis I (or an approved course in statistics or applied mathematics) (3)

MAT 516 Algebra II (3)

MAT 535 Topology (3)

MAT 546 Real Analysis II (3)

MAT 575 Complex Analysis (or 576 if MAT 575 is selected above) (3)

MAT or STA electives chosen from the course offerings

below (except MAT 503 and MAT 541)

9 semester hours

COURSE DESCRIPTIONS **MATHEMATICS**

Symbol: MAT

503 History of Mathematics (3) Development of mathematics from prehistoric time to present. Emphasis on changes in the mainstreams of mathematical thought through the ages.

513 Linear Algebra (3) Vectors, vector spaces, determinants, linear transformations, matrices, and bilinear and quadratic forms

514 Theory of Numbers (3) Elementary number theory and selected topics in analytic number theory. 515 Algebra I (3) Elements of abstract algebra. groups, commutative ring theory, modules, and associative algebras over commutative rings. Offered in fall of odd-numbered years.

516 Algebra II (3) A continuation of MAT 515. Vector spaces, representation theory, and Galois theory. PREREQ: MAT 515. Offered in spring of even-numbered years.

521 Discrete Mathematics and Graph Theory (3) Techniques of problem solving, including the use of binomial coefficients, generating functions, recurrence relations, the principle of inclusionexclusion, and Polya's Theorem.

532 Geometry 1 (3) This course is a rigorous introduction to geometry from a transformational point of view, emphasizing Euclidean, hyperbolic, and/or projective geometry. Other topics such as Spherical geometry, symplectic geometry, or Affine geometry may be included if time permits. 533 Geometry II (3) A study of geometry using calculus as our main tool. The course covers the basics of differential geometry-parametrizations, tengent spaces, curvature, geodesics-leading to Stokes theorem and the Gauss-Bonnett theorem. Several examples will be studied in depth, including the sphere and the projective plane (which were introduced in the first course).

535 Topology (3) Filters, nets, separation axioms, compactness, connectedness, and uniform spaces. 541 Advanced Calculus (3) For students with background deficiencies in analysis. Ordinary and uniform limits; sequences of functions; and the Riemann integral. Offered in summer.

545 Real Analysis 1 (3) A rigorous study of real-valued functions of real variables. PREREQ: MAT 541 or equivalent. Offered in fall of evennumbered years.

546 Real Analysis II (3) Continuation of MAT 545. PREREQ: MAT 545. Offered in spring of odd-numbered years.

570 Mathematical Models in the Life, Physical, and Social Sciences (3) Techniques and rationales of model building. Applications to the life, physical, and social sciences.

572 Proseminar (3) Seminar in generating and solving problems in mathematics.

575 Complex Analysis 1 (3) A rigorous study of complex-valued functions of complex variables.

593 Topics in the History of Mathematics (3) Specialized topics in the history of mathematics announced at the time of offering. PREREQ: Permission of instructor.

595 Topics in Mathematics (3) Topics announced at time of offering. PREREO: Permission of instructor. Offered as needed. 599 Independent Study (1-3) Offered as needed. 610 Thesis (3-6) Offered as needed.

MATHEMATICS EDUCATION

Symbol: MTE

501 Fundamental Concepts of Mathematics 1 (3) Selected topics that reflect the spirit and the content of the modem elementary school mathematics programs. Logic, sets, functions, number systems, integers, number theory, rational numbers, and problem solving, including estimations and approximations, proportional thinking, and percentages.

502 Fundamental Concepts of Mathematics 11 (3) A continuation of MTE 501. The real number system, probability, statistics, geometry, measurement (including the metric system), and problem solving. PREREO: MTE 501.

507 Foundations of Secondary Mathematics Education (3) Research methods in mathematics education; forces which have shaped mathematics education; classroom implications of 20th-century learning theorists; assessment in the classroom; methods of organizing for instruction; cultural and gender considerations. Offered each summer.
508 Junior High School Mathematics—

Curriculum, Instruction, and Assessment (3)
This course will focus on the curricula, methods of instruction, and assessment techniques used to teach mathematics in a junior high school setting. Course topics will include elementary school mathematics from the perspective of a secondary school teacher, junior high school mathematics, algebra I, and general/consumer mathematics. Teachers also will explore strategies that can be used to integrate the calculator, computer, and new CD-ROM technologies into the mathematics classroom. Offered in fall of odd-numbered years. PREREQ: MTE 507 for students in the M.A. program.

510 Algebra for the Elementary Teacher (3) An introduction to modem algebra. A comparative study of mathematics systems. PREREQ: MTE 501 or equivalent. Offered in fall of even-numbered years. 512 Senior High School Mathematics—Curriculum, Instruction, and Assessment (3) This course will focus on the curricular methods of

Curriculum, Instruction, and Assessment (3)
This course will focus on the curricula, methods of instruction, and assessment techniques used to teach mathematics in a senior high school setting. Course topics will include geometries, algebra II, trigonometry, precalculus, and discrete mathematics. Teachers also will explore strategies that can be used to integrate the scientific and graphing calculator, computer, and the new CD-ROM tech-

nologies into the mathematics classroom. Offered in summer of even-numbered years. PREREQ: MTE 507 for students in the M.A. program.

530 Geometry for the Elementary Teacher (3) Basic concepts in geometry. Euclidean geometry and postulative systems. PREREQ: MTE 501 or equivalent. Offered in fall of odd-numbered years.

551 Mathematics for the Disadvantaged (3) Examination of current programs in mathematics for the disadvantaged; discussion of the pertinent research literature; and development of materials and techniques for teaching the slow learner and low achiever.

553 Teaching Elementary School Mathematics 1 (3) In-depth treatment of strategies, methods, and materials for teaching the following concepts in an elementary classroom: place value; addition, subtraction, multiplication, and division of whole numbers; measurement; elementary number theory; geometry; fractions; and integers. PRE-REQ: MTE 501 or equivalent. Offered in spring of even-numbered years and in summer.

554 Teaching Elementary School Mathematics II
(3) History and development of the modern elementary school mathematics programs. Theories and findings of recent and contemporary learning theorists are investigated. Modern organizational strategies surveyed, including team teaching, individualized instruction, open space, contemporary instruction strategies, such as individualized learning systems, mathematical laboratories, and individually prescribed instruction, are studied. PREREQ: MTE 553, Offered in spring of odd-numbered years.

561 Calculus for Teachers (3) Analytic geometry of both the straight line and conics, and elements of the calculus of functions of a single real variable are reviewed. Topics include limits, continuity, the derivative and integral and their applications, curve sketching, and polar coordinates. Emphasis on methods of teaching these topics to secondary school students.

562 Computer Applications for Elementary School Mathematics (3) This technology-driven approach to teaching elementary school mathematics will include activities designed to enable teachers to use content-oriented software, spreadsheets, and graphic tools in the development of lessons involving mathematical applications. Emphasis will focus on teacher participation in simulations dealing with student-thinking skills.

595 Topics in Mathematics Education (3)
Topics announced at time of offering. PREREQ:
Permission of instructor. Offered as needed.
599 Independent Study (1-3)

604 Research Seminar (3) This course will focus on the study of research in mathematics education. Contemporary topics of research will be discussed and perused. Students will be expected to report on a topic of research of their choosing. In addition, empirical study and design will be discussed along with data analysis and the reporting of results.

610 Thesis (3-6)

STATISTICS

Symbol: STA

521 Statistics 1 (3) For nonmathematics majors. Emphasis on applications to education, psychology, and the sciences. Distributions, measures of central tendency and variability, correlation, regression and hypothesis testing, and other topics. 523 Mathematical Statistics 1 (3) A rigorous treatment of probability spaces and an introduction to the estimation of parameters.

524 Mathematical Statistics 11 (3) Continuation of STA 523. Correlation, sampling, tests of significance, analysis of variance, and other topics. PRE-REQ: STA 523.

525 Probability (3) An advanced approach to the elements of probability. Discrete and continuous random variables, probability distributions, and sampling distributions.

SERVICE COURSES IN MATHEMATICS

MATHEMATICS EDUCATION (MTE)

501 Fundamental Concepts of Mathematics I 502 Fundamental Concepts of Mathematics II

510 Algebra for the Elementary Teacher

550 Topics in Mathematics for Elementary School Teachers

553 Teaching Elementary School Mathematics 1

558 Teaching Mathematics in the Junior High School

560 Teaching Algebra in the Secondary School

561 Calculus for Teachers

562 Computer Applications for Elementary School Mathematics

STATISTICS (STA) 521 Statistics 1

Music

Dr. Blair, *Interim Dean*Dr. Burton, *Interim Coordinator of Graduate Studies*610-436-2536 or 436-2530

Mission

The mission of the School of Music at West Chester University is to create a learning environment that provides the highest order of education in all major aspects of music, to establish a foundation for life-long growth in music, and to offer programs and degrees that are tradition based but future oriented. In pursuing this mission, we reaffirm our commitment to diversity within the School of Music. Our faculty members strive to be inspiring teachers as well as musical and intellectual leaders. Further, we endeavor to expand the music opportunities available to all University students and to enhance the quality of our community's musical life.

Programs of Study

The School of Music offers programs leading to the master of arts degree in music history, and the master of music degree in music

education, performance, accompanying, music theory, music composition, and piano pedagogy. Course selections to meet degree requirements are made by candidates in consultation with their advisers and with consideration of the candidates' goals, abilities, needs, and interests.

Admission Requirements

In addition to meeting basic University requirements, listed under Admission, applicants for degree programs are considered on the basis of academic record, interviews, GRE Revised Music Test scores, portfolio review in composition, and auditions for performance programs. Prior to enrollment all applicants must do the following: (1) Take the GRE Revised Music Test and submit the results. The test is administered by the Educational Testing Service, P.O. Box 6000, Princeton, NJ 08541-6000; 609-771-7670. Application forms must be filed with the Educational Testing Service one month prior to the date of the examination. The GRE Revised Music Test is given at over 800 test centers across the country (including West Chester University) in April and December. A tape and booklet titled "Practicing to Take the

GRE Revised Music Test" is available for purchase from the Educational Testing Service. (2) Possess appropriate undergraduate degrees and may be required to remedy not more than 12 credits of deficiency (3) Schedule interviews with the graduate coordinator and appropriate department chairperson in the School of Music.

The areas of concentration, directed electives, and free electives are

described fully in a student handbook compiled by, and available from, the graduate coordinator of the School of Music.

Each degree candidate is individually responsible for satisfying degree candidacy and graduation requirements stated elsewhere in this catalog and for meeting deadline dates for the May, August, or December graduation, as appropriate.

Music Education

Dr. Belmain, Chairperson

PROFESSORS

Carol A. Belmain, D.M.A., *Temple University*J. Bryan Burton, D.M.E., *University of Southern Mississippi*

ASSOCIATE PROFESSOR

Colleen T. Ludeker, Ed.D., West Virginia University; Dalcroze License, Manhattan School of Music

ASSISTANT PROFESSORS

Jane T. Pippart, M.Mus.Ed., Holy Names College, Kodaly Emphasis; Certificate, Liszt Academy (Budapest, Hungary)C. Floyd Richmond, D.A., Ball State University

MASTER OF MUSIC IN MUSIC EDUCATION

(34 semester hours)

Students may choose programs with performance, research, Kodaly, or Orff-Schulwerk options. All programs require completion of nine credits in three core courses: MUE 500, 503, and 510. All students in M.M. programs in music education also must complete a comprehensive exit examination. Students not holding Level I Certification in music educa-

tion must complete prerequisite undergraduate work prior to admission into a graduate program which requires Level 1 Certification.

Additional Course Requirements

Performance and Research Programs

Performance: Six credits in music education; three credits in applied music; three credits in music theory; three credits in music history; three credits in free electives; three credits in concentration electives; recital (MUE 698 and VOI/AIM/PIA 696). Candidates desiring to pursue the recital option in voice must audition before the voice jury and receive permission to pursue that option before earning 15 graduate hours or after completing VOI 543, whichever comes first.

Research Report: Six credits in music education; three credits in applied music; three credits in music theory; three credits in free electives; three credits in concentration electives; four credits in research (MUE 691 and 692).

Kodaly Concentration: 18 credits in Kodaly (MUE 560-568); four credits in directed electives; and three credits in music history.

Orff-Schulwerk Concentration: 15 credits in Orff-Schulwerk (MUE 570-581); three credits of music history; and seven credits of free electives.

COURSE DESCRIPTIONS MUSIC EDUCATION

Symbol: MUE (unless otherwise shown)

500 Methods and Materials of Research (3) Basic techniques and procedures. Major types of research. Methods for locating, evaluating, and interpreting evidence. Preparation of a research outline.

503 Philosophical Foundations of Music
Education (3) Historical and philosophical foundations of music education. Application of principles of education to music. Major emphasis on development of a philosophy of the discipline.
510 Current Trends in Music Education (3)

Present practices and emerging developments in music education.

511 Vitalizing Music in the Elementary School (3) Exploration and examination of current pedagogy, materials, and technology available to enhance learning through music in the elementary classroom. Elementary education majors only.

512 Teaching Music Listening Skills and Activities (3) Analysis of musical concepts within selected compositions with subsequent design of sequential teaching-learning strategies for all levels, K-12. Music majors only.

513 Music in the Middle School (3) Review and critical analysis of music education in the middle school; philosophies, curriculum, practices, and personnel.

515 Computer Applications in Music Education (3) Study of recent technological advances and their applications to include computer-assisted software, music performance and printing, synthesizers, sequencers, MIDI communication standard, strategies and technologies for classroom, interactive video, artificial intelligence, expert systems, and HyperCard.

516 Administration and Supervision of School Music (3) Administrative problems, curricular content and scheduling, in-service training of teachers, and specialized supervisory techniques for the music curriculum. PREREQ: Teaching

experience.

517 Psychology of Music (3) In-depth study of learning theories as related to music education and the nature of music.

518 Multicultural Perspectives in Music Education (3) Understanding the diversity of musical expressions of our planet and the multicultural musical dynamics of American culture; provides music educators with the information, materials and teaching strategies required for the creation and maintenance of a multiculturally based music curriculum. 528 Music in Special Education (3)

Characteristics of special pupils; adaptation of teaching techniques; materials curriculum.

529 Dalcroze Eurhythmics (3) A pedagogical approach to the study of enacting musical meanings in physical space. Refining the sensing, analyzing, and improvising of musical concepts by understanding how music is produced.

536-539 Workshops (1-3) Participation-oriented workshops designed to meet specific needs in music and music education and to develop skills for practical application in school and professional settings. (The prefixes that apply only to these workshops are MWE, Music Education; and MWH, Handbells.)

550 Related Arts Pedagogy in Music Education (3) Historical background of the related-arts movement. Principles of related-arts teaching related to musical elements, forms, and styles, with appropriate teaching techniques at specified grade levels. Materials for school music programs: basal music series, other texts and literature, and

resources in related arts. Demonstration lessons and unit planning.

551 Instrumental Music Education: Literature and Materials (3) Survey and analysis of newly published literature for large and small performing ensembles, teaching texts, current pedagogical trends. Development of teaching strategies. Guest lecturers to include composers, conductors, and educators. May be repeated for credit with permission of Department of Music Education.

• 552 Teaching Ethnic Music (3) Study and analysis of cultural background, musical materials, and performance techniques of music from target cultures. Development of teaching strategies appropriate for public school classrooms. Target cultures will vary. Course may be repeated for credit with permission of Department of Music Education.

560 Kodaly Level 1: Musicianship Training (2) Designed to develop musicianship for teaching the Kodaly process in primary grades and to develop students' ability to sing pentatonic literature and basic rhythms at sight in a classroom setting.
561 Kodaly Level 1: Methodology (2) Designed to present lesson-planning strategies for teaching Kodaly-based methodology in the primary grades.
562 Kodaly Level 11: Musicianship Training (2) Designed to develop musicianship for teaching the Kodaly process in intermediate grades and the student's ability to sing diatonic literature and advanced rhythms at sight in a classroom setting.

PREREQ: MUE 560 and 561.
563 Kodaly Level II: Methodology (2) Designed to present lesson-planning strategies for teaching Kodaly-based methodology in the intermediate grades. PREREQ: MUE 560 and 561.

· This course may be taken again for credit.

564 Kodaly Level III: Musicianship Training (2) Designed to develop musicianship skills for teaching the Kodaly process in secondary grades through classical music. PREREQ: MUE 562 and 563.

565 Kodaly Level III: Methodology (2)
Strategies and materials for listening lessons will be presented as well as teaching techniques for secondary classrooms. Students are expected to submit a 30-35 minute teaching tape for purposes of coordinating all Kodaly teaching skills. PRE-REQ: MUE 562 and 563.

566 Kodaly: Conducting (2) Designed to acquaint the student with the application and development of children's choral literature in performance using composed works of Kodaly and various other composers who have written for children.

567 Kodaly: Folk Music (2) Designed to review and identity folk song genre, identify principal researchers and collections, analyze materials collected, and submit project containing all materials. 568 Kodaly: Games and Materials (2) Designed to provide participants with materials for preparing, presenting, and reinforcing rhythmic and melodic concepts through game playing and dances.

570 Orff-Schulwerk Level I: Basic Musicauship (2) Designed to develop fundamental Orff processes through the acquisition of basic musical skills through pentatonic activities.

571 Orff-Schulwerk Level 1: Recorder (1)
Designed to develop fundamental Orff processes
through elemental proficiency on the soprano
recorder.

572 Orff-Schulwerk Level 1: Movement (1)
Designed to develop fundamental Orff processes
through movement - locomotor, dance, descriptive, free improvisation.

573 Orff-Schulwerk Level II: Basic Musicianship
(2) Designed to develop theoretical comprehension
of the evolution of elemental music through the
Baroque period. Liturgical and diatonic modes are

Bardue period. Entrigical and diatolic modes are used as vehicles in developing harmonic concepts. PREREQ: MUE 570, 571, 572, or Level 1 Certification from AOSA accredited program. Admission to program by audition.

574 Orff-Schulwerk Level 11: Recorder (1) Designed to develop skills on alto, tenor, and bass recorders through improvisation, accompaniment, and ensemble playing in various styles and historical periods. PREREQ: MUE 570, 571, 572.

575 Orff-Schulwerk Level II: Movement (1) Continued development of movement techniques through improvisation, choreography in set or free focus with either rhythm, music, or dramatic content, or a combination thereof. PREREQ: MUE 570, 571, 572.

576 Orff-Schulwerk Level III: Basic Musicianship (2) Designed to develop comprehension of 20th-century styles, theoretical and performance practices of Western and non-Western music, while using both ethnic and popular means. PREREQ: MUE 573, 574, 575.

577 Orff-Schulwerk Level III: Recorder (1) Continuation of Level II proficiencies and exploration of consort materials found in Orff-Schulwerk, Volumes 1-5. PREREQ: 573, 574, 575. 578 Orff-Schulwerk Level III: Movement (1) Continuation of Level II proficiencies; the analysis of

ethnic and historical dances with appropriate choreographic notation in set and free form focus or a combination thereof. PREREQ: MUE 573, 574, 575.

579 Orff-Schulwerk: Recorder Fusemble (1) A

579 Orff-Schulwerk: Recorder Ensemble (1) A culmination of recorder instruction, through per-

formance analysis, and discussion into a survey of repertoire suitable for recorder consort and consort with subordinate instruments. PREREQ: MUE 573, 574, 575.

580 Orff-Schulwerk: Movement (1) An in-depth study to develop visual and spatial awareness, coordination and body control, imagination, improvisation, and kinesthetic understanding of musical elements as they interact within the Schulwerk process. PRI-RI-Q-MUE 573, 574, 575. Open, as an elective, to students demonstrating proficiency in creative movement, improvisation, and ethnic dance. Admission by audition.

581 Orff-Schulwerk: Instrumentation Practicum (1) A survey of works by Carl Orff and Gunild Keetman for the instrumentarium which requires advanced performance skills. PREREQ: MUE 573, 574, 575. Open, as an elective, to students demonstrating playing proficiencies using basic techniques or unpitched and pitched instruments, as well as improvisational skills. Admission by audition.

679 Special Subjects Seminar (1-3) Significant topics presented by faculty members or visiting lecturers. Designed to meet specific needs of the seminar group.

681-83 Independent Study in Music (1-3) Individual research under the guidance of a faculty member. PRERFQ: Permission of instructor.

691 Research Seminar in Music (2) A research proposal with supporting procedures is developed. Guidance in individual research topics, with tutorial assistance in form and style of research writing.

692 Research Report (2)

698 Recital Research (1)

Music History and Literature

Dr. Murray, Chairperson

PROFESSORS

Sterling E. Murray, Ph.D., University of Michigan Charles G. Price, Ph.D., Stanford University Liselotte M. Schmidt, Ed.D., Columbia University

ASSOCIATE PROFESSOR

Scott L. Balthazar, Ph.D., University of Pennsylvania

ASSISTANT PROFESSOR

Thomas Winters, Ph.D., University of Pennsylvania

Admission Requirements

In addition to the general requirements for admission to degree programs in music, music history applicants must be tested in the reading

knowledge of a foreign language, preferably French or German. Students found lacking in a reading skill in a foreign language must eliminate this deficiency before admission to degree candidacy.

MASTER OF ARTS IN MUSIC HISTORY

(33 semester hours)

Fifteen credits in five courses offered by the Department of Music History and Literature (one three-credit course must be chosen from each of the following three groups: MHL 640-641, 642-643, and 644-645); nine credits in research and bibliography (MHL 550, 698, and 699); nine credits in electives (music and related disciplines); defense of thesis serves as comprehensive exit examination.

COURSE DESCRIPTIONS MUSIC HISTORY AND LITERATURE Symbol: MHL

501 Style, Form, and Genre in Music History (3) An introduction to the study of music at the graduate level designed as a survey of Western art music with emphasis on fundamental considerations of genre, style, and form.

510 Collegium Musicum (1) A chamber ensemble specializing in the use of authentic instruments and performance techniques in the music of the Medieval, Renaissance, and Baroque eras. Open by audition.

550 Seminar in Musicology (3) Bibliographical materials, introduction to musicological research, development of research techniques, and writing

skills. Required of M.A. (music history) candidates. 620 World Music (3) An introduction to the study of tribal, folk, popular, and oriental music and ethnomusicological methodology. Open to music majors and nonmusic majors without prerequisites.

622 History of Jazz (3) A survey of the history of jazz, including representative performers and their music.

640 Medieval Music (3) Development of plainsong and secular monody, and beginnings and early history of polyphony to the 14th century. Consideration of contemporary trends in the visual arts, history, and literature.

641 Renaissance Music (3) Sacred and secular music in the Age of Dufay; changing forms and

styles through the music of the Franco-Flemish groups; the frottola and related forms; and Palestrina and his contemporaries. Brief consideration of contemporary trends in the visual arts, history, and literature

642 Barnque Music (3) Styles and forms of the European repertoire; contributions of the major composers; and the role of music and musicians in the society of the period.

643 Late 18th-Century Music (3) Changing styles and forms in the sons of J.S. Bach; the Viennese preclassicists; the Mannheim School; opera; Joseph and Michael Haydn, Mozart, and their contemporaries.

644 19th-Century Music (3) Historical developments during the Romantic period (ca. 1800-

1900). Analysis of changes and trends, and comparative aspects of new forms.

645 20th-Century Music (3) Chronological survey of 20th-century music. Development of styles. Technical aspects of changes occurring in melody, rhythm, orchestration, texture, tonality, and form. 651 Music in the United States (3) Analysis of music and musical trends in America from the Pilgrims to the present.

654 History of Opera (3) The composers and their major contributions to the various schools of opera.
655 History of Orchestral Music (3) How the symphony orchestra developed from the Baroque period to the present in its function, literature,

instrumentation, and performance practices.

658 Performance Practices (3) A consideration of the special problems encountered in the stylistic realization and performance of music from the Medieval through the Romantic eras. Particular attention will be focused on original sources, period instruments, and performance problems.

662 Mozart and His Works (3) A study of the life and music of Wolfgang A. Mozart with special reference to the period in which he lived. Taught in summers in Salzburg, Austria.

679 Topics in Music History I (1-3) Significant topics presented by faculty members or visiting lecturers. Designed to meet specific needs of the

seminar group.

680 Topics in Music History II (1-3) Significant topics presented by faculty members or visiting lecturers. Designed to meet specific needs of the seminar group.

681-83 Independent Study in Music History (1-3) Individual research under the guidance of a faculty member.

698 Directed Research in Musicology (3) This course is designed to assist the graduate music history major to focus research pursuits toward formulation of a potentially successful thesis topic.

699 Thesis in Music History (3)

Instrumental Music

Dr. Grabb, Chairperson

PROFESSORS

Eugene Klein, M.M.E., *Indiana University* Kenneth L. Laudermilch, D.M.A., *Catholic University of America* Emily Newbold, D.M.A., *Combs College*

ASSOCIATE PROFESSORS

Sylvia Moss Ahramjian, M.M., *Indiana University* Henry Grabb, D.M., *Florida State University* Terry E. Guidetti, M.Mus., *Northwestern University* H. Lee Southall, M.A., *Trenton State College*

ASSISTANT PROFESSORS

Chris Hanning, D.M.A., *University of Colorado*Carol Isaacson-Briselli, M.M., *Temple University*Glenn Lyons, M.Mus., *Peabody Conservatory of Music of Johns Hopkins University*

Owen Metcalf, D.M., *Indiana University* Jane Richter, D.M.A., *Combs College* John Villella, Ed.D., *Widener University*

INSTRUCTORS

Gloria Galante, B.S., West Chester University Larry McKenna Karin Meyer, B.M., Temple University Peter Paulsen, B.M., West Chester University

Admission Requirements

In addition to the general requirements for admission to degree programs in music, performance applicants must (1) schedule an interview with the graduate coordinator and the department chairperson; (2) submit a repertoire list; and (3) demonstrate performance ability at an advanced level by performing for an audition committee.

MASTER OF MUSIC IN PERFORMANCE

(30 semester hours)

Instrumental concentration: Nine credits in individual lessons at the advanced level (XXX 541-43) and Recital (AIM 697); AES 511; 5-6 concentration credits (selected from AIC 512, and ALC 511, 531, and 541 or 551); three credits in music history; three credits in music theory; 6-7 credits of free electives; and completion of a comprehensive exit examination.

COURSE DESCRIPTIONS INSTRUMENTAL MUSIC

INDIVIDUAL LESSONS: Prefixes: BAR, BAS, BSN, CLT, FLU, FRH, GTR, HRP, OBO, PER, SAX, TBA, TPT, TRB, VCL, VLA, VLN

501-02 Lessons at the Minor (beginning) Level (1)

511-14 Lessons at the Major Level (1) 541-43 Lessons at the Advanced Level (3)

For performance majors only.

AEB 511 Marching Band (1) AEB 521 Concert Band (1)

AEB 531 Symphonic Band (1) AEB 541 Wind Ensemble (1)

AEO 531 Chamber Orchestra (1)

AEO 541 Symphony Orchestra (1)

AES 511 Recital-Instrumental Ensemble (2) Program selection, recruitment of players, rehearsal, and performance of music for small instrumental ensembles.

AES 512 Instrumental Ensemble (1)

A1C 512 Advanced Instrumental Conducting (2) PREREQ: Undergraduate conducting.

AIM 511 Marching Band Techniques and Materials (3) A survey of the function of the total marching band and of each component in the

AIM 679-80 Special Subjects Scminar-Instrumental (1-3) Instrumental music topics presented by faculty and/or visiting lecturers.

AIM 681-83 Independent Study in Music (1-3) AIM 696 Recital-Instrument (1) For music education majors in lieu of research report. PREREQ: Jury exam.

AlM 697 Recital-Instrument (1) For performance majors. PREREQ: Jury exam.

INSTRUMENTAL LITERATURE COURSES: A survey of solo, ensemble, and teaching literature through performance and the use of scores and recordings.

ALC 511 Brass Literature (3)

ALC 531 String Literature (3)

ALC 536 Guitar Literature (3)

ALC 541 Woodwind Literature (3)

ALC 551 Instrumental Literature (3)
MASTER CLASSES: Performance techniques

and stylistic interpretation of instrumental solo works. PREREQ: Performance ability at the major level.

AMC 511 Master Class-Brass (1)

AMC 521 Master Class-Percussion (1)

AMC 531 Master Class-Strings (1)

AMC 536 Guitar Literature (3)

AMC 541 Master Class-Woodwind (1)

MWB 536-39 Marching Band Workshop (1-3) A comprehensive marching band conference for the total marching band program. Foremost authorities offer instruction in their fields of specialization.

Keyboard Music

Prof. Aliferis, Chairperson

PROFESSORS

Robert M. Bedford, D.Mus., *Catholic University of America* Robert E. Pennington, D.Mus., *Northwestern University* Richard K. Veleta, D.Mus., *Northwestern University* Jacques C. Voois, D.M.A., Peabody Conservatory of Music of Johns Hopkins University

ASSOCIATE PROFESSORS

Shirley Pethes Aliferis, M.Mus., *Indiana University* Timothy V. Blair, D.M.A., *Catholic University of America* Music: Keyboard

Praxiteles Pandel, M.S., The Juilliard School

INSTRUCTOR

Gordon Turk, D.M.A., Manhattan School of Music

Program of Study

The Department of Keyboard Music offers three degree programs at the graduate level — the master of music in performance (piano, harpsichord, or organ), master of music in accompanying, and master of music in piano pedagogy. All programs require completion of three semester hours each in music history and in music theory. In addition, all students must complete a comprehensive exit examination.

MASTER OF MUSIC IN PERFORMANCE

(30 semester hours)

Admission Requirements

In addition to the general requirements for admission to degree programs in music, performance applicants must: (1) schedule an interview with the graduate coordinator and the department chairperson, (2) submit a repertoire list, and (3) demonstrate performance ability at an advanced level by performing for an audition committee.

Area of Concentration (piano, harpsichord, or organ):

Nine credits in individual lessons at the advanced level (HAR/ORG/PIA 541-43); six credits in keyboard literature (PIA 623-627) or organ literature (ORG 551-552); three credits of concentration electives from KEN 546, MAK 558, ORG 561-62, PIA 572-73, or PIA 582-83; three or four credits of free electives; two credits of recital (HAR 697, ORG 697, PIA 697); three credits in music history; three credits in music theory; and completion of a comprehensive exit examination.

MASTER OF MUSIC IN ACCOMPANYING

(30 semester hours)

Admission Requirements

In addition to the general requirements for admission to degree programs in music, accompanying applicants must (1) submit transcripts showing completion of a bachelor's degree in music, including six semester hours of a foreign language (French, German, or Italian preferred) and (2) demonstrate accompanying ability at an advanced level by performing for an audition committee.

Area of Concentration: Four credits in individual lessons at the advanced level (PIA 570-71); eight credits of ensemble (PIA 574-75); nine credits in cognate courses (PIA 572-73, 576-77); and three credits in free electives (VOC 511-14, VOC 515-16 preferred); three full recitals (0 credit); three credits in music history; three credits in music theory; and completion of a comprehensive exit examination.

Until further notice, no new students are being admitted into the

master of music in accompanying.

Master of Music in Piano Pedagogy

(36 semester hours)

Admission Requirements

In addition to the general requirements for admission to degree programs in music, piano pedagogy applicants must schedule an entrance examination, which will consist of scales, arpeggios, solo repertoire from various stylistic periods, and sight reading. Applicants whose undergraduate degrees are not in music may be accepted into the program if they demonstrate equivalent background in piano.

Area of Concentration: Eight credits in individual lessons (PIA 578-79, PIA 588-89); fifteen credits in piano pedagogy (PIA 580-83); six credits in keyboard literature (PIA 623-27); a recital (PIA 695) for one credit; three credits in music history; three credits in music theory; and completion of a comprehensive exit examination.

COURSE DESCRIPTIONS KEYBOARD MUSIC

Symbol: HAR, KEN, MAK, MWP, ORG, PIA

501-2 Individual Lessons at the Minor Level in Piano, Organ, Harpsichord (1) Individual, half-hour lessons once weekly. An elective course for all graduate students.

511-14 Individual Lessons at the Major Level in Piano and Organ (1) Individual half-hour lessons. Continued study in the development of repertoire and performing skills. Students may be given permission to register for two course numbers in the same semester, earning the second credit by doing additional outside work and performing in a recital. PREREQ: Completion of the performance major requirements at the undergraduate level or admission by audition.

PIA 525 Piano Technique (3) An exploration of the many approaches to acquiring and teaching piano technique, the correlation between technique and musical style, how to practice and analyze physiological movements.

541-43 Individual Lessons at the Advanced Level in Piano, Organ, and Harpsichord (3) Individual, half-hour lessons once weekly. Advanced studies leading to a full-length recital at the master's level. PREREQ: Completion of the performance major requirements for the Bachelor of Music degree or admission by audition. MWP 536-539 Piano Workshop (1-3) MWS 536-539 Contemporary Applications of Keyboard Synthesizers (3) A hands-on workshop involving programming techniques for synthesizers and the study of MIDI networks. Performance and composition will be emphasized.

KEN 546 Keyboard Ensemble (2) Performance of duet and two-piano literature.

ORG 551 Organ Literature I (3) A survey of literature for the organ from the 13th century to the Baroque period. The influence of the organ on the literature. Recordings and performance by organ majors.

ORG 552 Organ Literature II (3) A survey of literature for the organ from J.S. Bach to the present. The influence of the organ on the literature. Recordings and performance by organ majors.

ORG 553 Advanced Organ Pedagogy (3)
MAC 558 Master Class (Organ) (1-2)
MAK 558 Master Class (Keyboard) (1-2)
Weekly performance sessions for advanced students.

ORG 561 Accompanying (Organ) (3) Performance of vocal and instrumental accompanying literature for organ from all periods. Performance and reading sessions.

ORG 562 Service Playing (Organ) (3) A survey of problems in service playing for the organist. Hymn accompaniment, improvisation, conducting from the organ, and literature for the service. Observation of service playing when possible. PIA 570-71 Individual Lessons at the

Advanced Level for Accompanists (2) Individual, half-hour lessons once a week to train pianists in playing accompaniments. PREREQ: Admission to the M.M. degree in accompanying.

PIA 572-73 Accompanying I, Vocal II, Instrumental (3) Survey of accompanying literature: (1) art songs, recitatives, cantata, opera, and oratorio arias; and (11) strings, winds, and brass. Performance and reading in class.

PIA 574-75 Ensemble I, II (4) Accompanying in teaching studios for large groups (choruses), for various ensembles (including trios and quartets),

and for faculty, B.M., M.M., general, and senior student recitals.

PIA 576 Harpsichord and Continuo Realization (1) An introduction to harpsichord playing and the principles of continuo realization. PIA 577 Transposition and Score Reading (2) Training in score reading and transposition at the keyboard.

PIA 578 Individual, one-hour lessons for students of piano pedagogy (2) PREREQ: Admission to the pedagogy concentration.

PIA 579 Individual, one-hour lessons for students of piano pedagogy (2)

PIA 580 Group Piano Pedagogy (4) Procedures and materials for group piano instruction. Emphasis on developing comprehensive musicianship through an interwoven study of literature, musical analysis, technique, improvisation, ear training, harmony, transposition, and sight reading. Includes practicum in group piano instruction.

PIA 581 Piano Pedagogy I (4) An in-depth study of materials available to the studio piano teacher for the elementary levels. Discussions include different methods, technique, harmony, ear training, and sight reading. Includes practicum in individual instruction.

PIA 582 Piano Pedagogy II (4) An in-depth study of repertoire and materials available to the studio piano teacher for the intermediate levels. Discussions of related concerns, such as memorization, practice techniques, developing technique through literature, principles of fingering, and sight reading, Includes practicum in individual instruction.

PIA 583 Selected Topics in Piano Pedagogy (3) Further exploration of the goals and objectives of piano study through presentation of selected topics and continued practicum in individual instruction.

588 Advanced Lessons (2) Individual one-hour lessons once weekly, for students in the M.M. in piano pedagogy degree.

589 Advanced Lessons (2) Individual one-hour lessons once weekly, for students in the M.M. in piano pedagogy degree.

PIA 608 The Music of Chopin (3) A comprehensive study of the contributions of Frederic Chopin to keyboard literature.

PIA 623 Baroque Keyboard Literature (3) The Renaissance through development of variation form and dance suite. Emphasis on performance practices, realizing ornament signs and figured basses; transferral to the modern piano; in-depth study of works of llandel, J.S. Bach, and D. Scarlatti. Some student performance required. PIA 624 Ctassical Piano Literature (3) Literature for the early piano (1750-1830). Origin and development of the sonata and performance practices of homophonic style. Music of the sons of Bach, llaydn, Mozart, and Beethoven. Sound and structure of the early piano. Some student

performance required.

PIA 625 Romantic Piano Literature (3) Analysis of piano styles of Schubert, Chopin,
Mendelssohn, Schumann, Liszt, Brahms, Faure,
Mussorgsky, Tchaikovsky, and Grieg.
Performance practices. The virtuoso etude and
problems of technical execution. Some student
performance required. PREREQ: PIA 426
(Keyboard Literature II) or equivalent.
PIA 626 20th-Century Piano Literature (3)

PIA 626 20th-Century Plano Literature (3) Seminal works and styles of this century. Albeniz, Rachmaninoff, Debussy, Ravel, Prokofiev, Hindemith, Schoenberg, Bartok, and American composers. Some student performance required. PREREQ: MTC 213 (Theory of Music IV) or equivalent.

PIA 627 The Piano Concerto (3) A chronological presentation of the development of the piano concerto; performances, problems, and practices will be emphasized. Covers from J.S. Bach to present.

PIA 679-680 Special Subjects Seminar (1-3) Significant topics presented by faculty members or visiting lecturers. Designed to meet specific needs of the seminar group.

PIA 681-683 Independent Study in Music (1-3) PIA 695 Recital (1) A full recital of concert works or pedagogical pieces, or a lecture-recital. Required of candidates for the master of music in piano pedagogy. PREREQ: Approval by committee examination.

PIA 696 Recital (1) A shared (half) recital open to candidates for the master of music degree (music education concentration). In lieu of research report, Program notes required.

PREREQ: Approval by committee examination.

PIA 697 Recital (2) A full public recital, demonstrating an understanding of various performance styles and an ability to perform literature from several periods. Required of candidates for the master of music in performance. PREREQ: Approval by committee examination.

Music Theory and Composition

Dr. McVoy, Chairperson

PROFESSORS

James E. McVoy, Ph.D., Eastman School of Music Larry A. Nelson, Ph.D., Michigan State University James D. Sullivan, Ph.D., Eastman School of Music

ASSOCIATE PROFESSOR

Robert Maggio, Ph.D., University of Pennsylvania

ASSISTANT PROFESSOR

Amy Bauer, Ph.D., Yale University

Admission Requirements

In addition to the general requirements for admission to degree programs in music, theory and/or composition applicants must (1) schedule an interview with a faculty committee appointed by the chairperson of the Department of Music Theory and Composition; and (2) demonstrate sufficient pianistic ability, sight singing, and aural per-

ception to meet the demands of the program. In addition, composition applicants must submit original works showing technical facility in composition.

MASTER OF MUSIC IN THEORY

(30 semester hours)

Three credits in music history; 15 credits in music theory (selected from MTC 512, 517, 541, 544, 546, and 579); six credits in concentration electives; three credits of free electives; three credits of thesis (MTC 697). The thesis defense serves as a comprehensive exit examination.

MASTER OF MUSIC IN COMPOSITION

(30 semester hours)

Three credits in music history; MTC 512, 513, and 514 (nine credits); 12 credits in music theory, selected from MTC 517, 541, 542, 544, 545, 546, 550, 564, and 579; three credits of free electives; and three credits of thesis (MTC 699). The thesis defense serves as the comprehensive exit examination.

COURSE DESCRIPTIONS MUSIC THEORY AND COMPOSITION

Symbol: MTC (unless otherwise indicated)

512-14 Advanced Composition 1, 11, and II1 (3) Free composition in larger forms for ensembles, solo voice and chorus, chamber groups, and orchestra. PREREQ: MTC 213 (Theory of Music IV) or equivalent.

517 Electronic Music (3) Materials and techniques of electronic music and their use in composition. Laboratory experience in the composition of electronic music. PREREQ: Permission of the instructor.

MWJ 536-39 Jazz Studies Workshop (1-3) A workshop for the study and performance of jazz. Arranging and ensemble performance opportunities. A separate brochure describes summer workshops.

541 Advanced Orchestration (3) Original composition or arrangement for orchestra. PREREQ: A knowledge of the instruments of the orchestra and experience in their use.

542 Advanced Musical Form (3) A detailed study of musical form, with emphasis on modifications of sonata form, vocal and instrumental forms of Baroque music, and forms that are unique.

544 Advanced Counterpoint 1 (3) Contrapuntal techniques of the 18th century. Chorale prelude and invention.

545 Advanced Counterpoint II (3) Continuation of MTC 544. Includes the canon, invertible counterpoint, and fugue. PREREQ: MTC 544 or permission of the instructor.

546 Techniques of Early 20th-Century Music (3) A study of compositional techniques in representative vocal and instrumental works of the first two decades of this century.

550 Acoustics of Music (3) The study of sound: its production, transmission, and reception. Musical instruments, the acoustics of rooms, and the physical basis of scales.

561 Jazz Harmony and Arranging (3)

562 Advanced Jazz Harmony and Arranging (3) A study of improvisation and arranging, literature, and other aspects of an important phase of popular styles.

564 Performance Practices in Contemporary Music (3) This course will provide the following opportunities: (1) the participants will study technical problems of understanding new notation (e.g., graphic scores, proportional scores, multiphonics, microtones, metric modulation, asymmetrical rhythm groupings, prose scores, etc.), and

will develop a reasonable facility in performing scores that include these techniques; (2) an ensemble, for which composition students may compose; and (3) the establishment of an ensemble, which may publicly perform new music.

579 Seminar in Music Theory (1-3) Special topics seminar designed to meet specific needs of music majors in the area of theory research.

591 Advanced Chromatic Harmony (3)

592 Advanced Ear Training (2)

679 Special Subjects Seminar (1-3) Significant topics presented by faculty members or visiting lecturers. Designed to meet specific needs of the seminar group.

681-83 Independent Study in Music (1-3) Individual research under the guidance of a faculty member. PREREQ: Permission of instructor.

691-92 Research Seminar in Music (1-2) A research proposal with supporting procedures is developed. Guidance in individual research topics with tutorial assistance in form and style of research writing.

697 Theory Thesis (3) For graduate majors in theory only.

698 Research Report (1)

699 Musical Composition Thesis (3) For graduate majors in composition only.

Vocal and Choral Music

Dr. Wyss, Chairperson

PROFESSOR

Raymond Friday, Ph.D., New York University

ASSOCIATE PROFESSORS

Kathryn Chilcote, D.M.A., University of Oregon W. Larry Dorminy, D.M., Indiana University David Sprenkle, D.M.A., University of Maryland – College Park G. Alan Wagner, M.F.A., Carnegie Mellon University Jane Wyss, D.M.A., University of Texas at Austin

ASSISTANT PROFESSORS

David DeVenney, D.M.A., Conservatory of Music. University of Cincinnati

Christine Carlton Dowdell, Ed.D., Teachers College, Columbia University

Admission Requirements

In addition to the general requirements for admission to degree programs in music, performance applicants must (1) demonstrate

advanced performance ability; (2) audition with a program, including selections drawn from Italian art song, German Lied, French melodie, opera, and oratorio; (3) demonstrate diction competency in Italian, German, and French; (4) submit a repertoire list; and (5) schedule an interview with the graduate coordinator and the department chairperson. Students lacking nine credits of undergraduate foreign language must remove this deficiency before candidacy.

MASTER OF MUSIC IN PERFORMANCE

(30 semester hours)

The program requires completion of three credits in music history and three credits in music theory, as well as the concentration described below.

Voice Concentration: Nine credits in individual lessons at the advanced level (VOI 541-43) and a recital (VOI 697); VOC 524 (three credits); 4-6 credits (selected from VOC 511-16, 526, 529, 546, and 591, and MHL 654), 4-6 credits of free electives; and completion of a comprehensive exit examination.

COURSE DESCRIPTIONS VOCAL-CHORAL

Symbol: CHO

511 Masterworks Chorus (1) A large mixed chorus presenting oratorios, masses, and advanced-level choral literature. Permission of instructor.

611 Chamber Choir (1) A consort of 15-25 singers specializing in the performance of sacred and secular vocal music of the Renaissance and early Baroque periods. By audition.

612 Concert Choir (1) A mixed chorus of 35-45 singers performing sacred and secular choral literature of all periods and styles. By audition.

Symbol: VOC

511 Master Class — Baroque (1) Discussion and performance of songs from the Baroque period.

512 Master Class — German Lied (1)
Discussion and performance of German art song.

513 Master Class — French Melodie (1)
Discussion and performance of late French art song.

514 Master Class — 20th-Century Art Song (1) Discussion and performance of art songs from the 20th century.

515 English-Italian Diction (3) English, Italian, and Latin diction in a laboratory course to establish correct pronunciation in singing. The phonetics of these languages are used in selected song repertoire.

516 French-German Diction (3) French and

German diction in a laboratory course to establish correct pronunciation in singing. The phonetics of these languages are used in selected song repertoire. 524 Musico-Dramatic Production (3) Techniques of producing musical plays. Preparation for roles, coaching, and conducting rehearsals. May lead to a public performance of the material studied.

526 Choral Literature (3) Examples of choral music from the various musical periods. Primarily larger works.

529 Vocal Literature (3) Classic song literature, lieder, melodie, and contemporary art songs are discussed.

536-39 Vocal-Choral Workshops (1-3) Participation-oriented workshops designed to meet specific needs in vocal-choral music.

546 Vocal Ensemble (2) Self-study in the performance and preparation of small ensembles. Project must have the approval of the department chair-person.

591 Vocal Pedagogy (3) Principles and techniques of teaching voice.

613 Advanced Choral Conducting (2) Study and application of advanced choral conducting techniques.

679 Special Subjects Seminar (1-3) Significant topics presented by faculty or visiting lecturers.

681 Independent Study (1)

682 Independent Study (2)

683 Independent Study (3)

691 Research Seminar in Music (2)

692 Research Seminar in Music (1)

Symbol: VOI

501-02 Individual Lessons at the Minur Level (1) An elective course for graduate students. 511-14 Individual Lessons at the Majur Level (1) Voice majors in the master of music in music education program. PREREQ: Completion of the undergraduate voice major requirements or by audition. 541-43 Individual Lessons at the Advanced

Level (3) Advanced vocal studies culminating in a full master's recital. PREREQ: Completion of the performance requirements for the bachelor of music in voice program or admission by audition. 696 Recital (1) A shared (half) public recital for candidates in the master of music education program in lieu of a research report. Candidate must write approved program notes. PREREQ: Approval by the examination committee.

697 Recital (2) A full public recital demonstrating an understanding of various performance styles and the ability to perform. Required of candidates for the master of music in voice degree. PREREQ: Approval by the examination committee.

Symbol: VOW

521 The Broadway Musical (3) Surveys the American musical theatre, past and present. Elements of producing the American musical in school settings.

522 The Musical Revue (1-3) Explores the concept of choral music in motion and the necessary techniques and skills for mounting a successful choral ensemble.

Nursing

105 Nursing Building West Chester University West Chester, PA 19383 610-436-2219

Prof. Coghlan Stowe, Chairperson
Dr. Hickman, Coordinator of Graduate Studies

PROFESSORS

Janet S. Hickman, Ed.D., *Temple University* Susan C. Slaninka, Ed.D., *Temple University*

ASSISTANT PROFESSORS

Elizabeth Petit de Mange, M.S.N., Widener University Ann Coghlan Stowe, M.S.N., University of Pennsylvania

Admission Requirements

The minimum admission standards for the Department of Nursing are a B.S.N. degree from a National League for Nursing (NLN) accredited program, an undergraduate GPA of at least 2.5, a course in statistics, a course in physical assessment, GRE verbal and quantitative score or MAT score, current licensure as a regis-

tered nurse (Pennsylvania licensure required prior to the clinical practicum), at least two years of recent full-time experience as a nurse providing direct clinical care, and three letters of recommendation from individuals familiar with the applicant's academic and/or professional qualifications.

MASTER OF SCIENCE IN NURSING

(39 semester hours)

Mission

The M.S.N. program at West Chester University affirms the philosophy and conceptual model of the undergraduate program and builds upon it. The purpose of the master of science program is to prepare nurses for practice as community health clinical specialists who are able to meet the health care needs of society including culturally diverse/vulnerable and/or medically underserved peoples. Graduates are also prepared for beginning roles in education and for administrative positions in a variety of settings.

At the end of the M.S.N. program, the graduate will be able to:

- synthesize philosophy, theory, content, and methods of public health science and nursing science as a basis for community health nursing practice;
- demonstrate advanced clinical skills in society including culturally diverse and/or medically underserved individuals and aggregates;
- 3. assume beginning roles in education or administration;
- 4. design health care strategies in which nurses contribute to the health promotion and disease prevention of individuals and aggregates;
- 5. evaluate health care issues, trends, and policies;
- pursue and evaluate professional development as a continuing professional learner;
- collaborate with interdisciplinary groups in the community for the purpose of health care planning to achieve the objectives of Healthy People 2000;
- 8. acquire a foundation for doctoral study in nursing;
- assume the role of advocate in community settings to promote accessibility of health care services and to enhance quality of care;
- 10. demonstrate a philosophy of nursing that reflects commitment to social justice and the advancement of nursing science;
- 11. participate in scientific inquiry directed to the health care needs of populations as well as individuals and families.

Concentration: Community Health Nursing

The master of science in nursing program will prepare professional nurses for leadership roles in community health nursing through in-depth consideration of community-based health care delivery systems, preparation in a functional role, and the use of critical inquiry and scholarship to improve the practice of nursing.

The program curriculum, developed in coordination with nurse educators, clinicians, and professional societies, offers a choice of instructional focus. The student will select either an **education** or **administration** functional component within the community health concentration. All students pursuing the M.S.N. degree are required to earn six credits in nursing research to complete the program.

The program was developed in accordance with the professional standards of the National League for Nursing. The department will continue striving to maintain the highest academic standards at all professional levels and to achieve professional approval and accreditation.

Functional Component: Nursing Education

The focus in nursing education will enhance the skills of the professional nurse in curriculum development and teaching competencies in nursing. Relevant electives (three credits) are selected under advisement.

Functional Component: Nursing Administration

The nursing administration focus will facilitate preparation of graduate nurses as clinical specialists, especially in the fields of gerontology and chronic illness. This focus is designed in anticipation of a more severely ill case mix in acute-care settings, as well as accelerated use of HMO's, home health agencies, and other types of community-based care. Relevant electives (three credits) are selected under advisement.

Requirements for the Master of Science in Nursing (39 semester hours)

I. Core Component

18 semester hours

BIO 584 Epidemiology (3) or HEA 520 Scientific Basis for Health (3)

NSG 501 Nursing Theories and Issues (3)

NSG 502 Perspectives of Community Health Nursing (4)

NSG 503 Principles and Practice of Community Health Nursing (6)

NSG 504 Advanced Concepts of Community Health Nursing (2)

II. Functional Component

9 semester hours

Each student will choose *either* nursing administration or nursing education as a functional focus.

A. Nursing Administration

NSG 509 Community Health Nursing Administration NSG 510 Nursing Administration in Community Health Settings (3)

Relevant electives selected under advisement (3) *OR*

B. Nursing Education

NSG 507 Curriculum Development in Nursing Education (3) NSG 508 Teaching Competencies in Nursing: Principles and Methods (3)

Relevant electives selected under advisement (3)

III. Research Component

6 semester hours

NSG 505 Nursing Research I (3) NSG 506 Nursing Research II (3)

IV. Thesis and Nonthesis Option

6 semester hours

Thesis: NSG 610 (3-6)

Nonthesis: Relevant electives selected under advisement (6)

V. Satisfactory performance on the written and/or oral comprehensive examination

Special Requirements

Insurance. Students are required to carry liability insurance coverage in the amount of \$1,000,000/\$3,000,000 when enrolled in nursing courses having a clinical component.

CPR Certification. Students enrolled in nursing courses having a clinical component are required to be currently certified by the American Red Cross, American Heart Association, or other acceptable resource in life support (two-person) cardiopulmonary resuscitation. The CPR course must include resuscitation of infants and children.

Health Requirements

Students enrolled in nursing courses having a clinical component must provide the Department of Nursing with evidence of a current (within one year) health assessment performed by a physician or certified nurse practitioner. Documentation of inoculations against diphtheria, tetanus, measles, poliomyelitis, and hepatitis B must be included.

COURSE DESCRIPTIONS NURSING

Symbol: NSG

501 Nursing Theories and Issues (3) Exploration of a variety of theories and current issues that affect nursing practice, education, and administration.

502 Perspectives of Community Health

Nursing (4) Introduction to concepts of public health and community health nursing. Includes both classroom presentations and clinical practicum in an agency of interest to the student, focusing primarily on community health care.

PREREQ or CONCURR: NSG 501.

503 Principles and Practice of Community

Health Nursing (6) Students will continue to refine the application of principles of community health during a second in the series of courses combining theory with practice. Continued emphasis on the political, governmental, and fiscal management aspects of community health nursing. PREREQ: NSG 502.

504 Advanced Concepts of Community Health Nursing (2) Seminar on advanced concepts of community health. No clinical practicum is associated with this course, which will be taken either prior to or together with the functional practicum. PREREQ: NSG 503.

505 Nursing Research I (3)

506 Nursing Research II (3) Critical analysis of research design and outcomes, using existing nursing research studies from the professional literature and existing computerized simulated research to develop skill in research modalities. PREREQ: NSG 505.

507 Curriculum Development in Nursing Education (3) This course is designed to examine the theory and practice of curriculum development as a group process, synthesizing basic principles of curriculum in nursing education.

508 Teaching Competencies in Nursing Principles and Methods (3) Examination of the teaching-learning process and skills in professional nursing, with emphasis on haccalaureate or in-service education, Includes both classroom and clinical practicum teaching experience, as well as seminars with other students enrolled. Focus is community health nursing throughout, PREREQ: NSG 507, 509 Community Health Nursing Administration (3) Principles of administration, leadership, and organization related to the delivery of community

health nursing care. Organizational, management,

power, decision-making, motivational, and change theories will be examined in relationship to the community health nurse administrator.

510 Nursing Administration in Community Health Nursing Settings (3) Examination of management skills for nurse-administrators in a service setting in community health. Includes both classroom and clinical practicum administrative experience, as well as seminars with other students enrolled. Focus is community health nursing throughout. PREREQ: NSG 509.

511 Measurement and Evaluation in Nursing Education (3) This course will focus on the application of principles of measurement and evaluation within nursing education. Practical experiences will include the construction and evaluation of classroom tests and clinical assessment instruments, as well as interpretation of standardized tests used within nursing education. Current trends and issues related to evaluation will be discussed. 513 Nursing Informatics (3) This course will focus on the current and potential impact of the microcomputer in the nursing arenas of practice, education, and administration. Basic concepts of computer literacy will be reviewed with lab exercises to assist those who are not computer literate. The course then will proceed from the history of nursing informatics and culminate with the future of nursing informatics.

516 Cancer Nursing Practice (3) The emphasis

of this course is the care of clients with cancer. This course examines the various physiological, psychosocial, and spiritual effects this disease has on clients and their families. A variety of topics will be discussed, including communication, hope, sexuality, spirituality, loss, pain, and altered body image. The focus of the course is on the role of the professional nurse in prevention, diagnosis, and client management.

517 Selected Topics in Nursing (3) An in-depth study of selected, current topics relevant to the development of nursing majors. This course will emphasize the critical analysis of current topics that impact on professional nursing. Each student will develop a commitment to reading and critiquing nursing research in professional journals as part of the teaching-learning process.

520 Health Assessment in Advanced Nursing Practice (3) This course combines comprehensive theoretical and laboratory experience to enable the nurse in advanced practice to complete a holistic health assessment of the client. Opportunity is provided to enhance the participant's ability to collect relevant data via use of appropriate interviewing methods, developmental and physical assessment techniques, critical thinking, and psychomotor skills (two hours, lecture; three hours, laboratory). 610 Thesis (3-6) Undertaken after completion of NSG 506. Research, supervised from topic selection, implementation, evaluation, and presentation.

Philosophy

103 Main Hall West Chester University West Chester, PA 19383 610-436-2841

Dr. Platt, Chairperson and Coordinator of Graduate Studies

PROFESSORS

George S. Claghorn, Ph.D., University of Pennsylvania W. Stephen Croddy, Ph.D., Brown University
Thomas W. Platt, Ph.D., University of Pennsylvania
Stanley Riukas, Ph.D., New York University
Paul A. Streveler, Ph.D., University of Wisconsin
Frederick R. Struckmeyer, Ph.D., Boston University

ASSOCIATE PROFESSOR

Ruth Porritt, Ph.D., Purdue University

ASSISTANT PROFESSOR

Frank Hoffman, Ph.D., University of London

Program of Study

The Department of Philosophy offers a program leading to the master of arts in philosophy. This degree will serve as a foundation for studies leading to a Ph.D. in philosophy or prepare students for positions in industry, government, or college teaching.

Admission Requirements

In addition to meeting general requirements for admission to a degree program at West Chester, applicants must present a minimum of 12 semester hours of undergraduate philosophy, including courses in history of ancient philosophy, history of modern philosophy, ethics, and logic.

Foreign Language Requirement

Candidates for the M.A. must demonstrate a reading proficiency in French, German, Spanish, or another language approved by the department.

Final Examination Requirement

A comprehensive, written final examination is required. This will cover four fields: (1) metaphysics; (2) any two from logic, ethics, aesthetics, philosophy of language, philosophy of science, or American philosophy; and (3) any agreed-upon philosopher, such as Plato, Aquinas, Kant, or Wittgenstein.

MASTER OF ARTS IN PHILOSOPHY

(30 semester hours)

All candidates are required to take PHI 599 and PHI 640. Beyond these requirements, the student has the choice of a thesis or nonthesis program.

The thesis program requires 18 semester hours in philosophy; six semester hours of electives, chosen from philosophy or related courses; and the thesis (PHI 610), which accounts for six semester hours. The nonthesis program specifies 24 semester hours in the philosophy concentration and six semester hours of electives (philosophy or related).

COURSE DESCRIPTIONS PHILOSOPHY

Symbol: PHI

506 Meaning in Language (also L1N 506) (3) A discussion of topics having to do with meaning in every day oral communication.

512 Ethical Theories (3) Examination of various ethical theories with practical applications to such problems as authority, punishment, rights, marriage, and race.

513 Aesthetic Theories (3) History of aesthetics, as seen in classic interpretations. Psychological and sociological origins of art; the role of art

works in the enrichment of life.

514 Philosophy of Religion (3) Dominant trends in religious philosophy of the Western world.
Religious language, reason and faith, science, the nature of man, the existence of God, and mysticism.
515 Existentialism (3) Background and themes of current existentialism, as reflected in Kierkegaard,

Jaspers, Marcel, Heidegger, and Sartre. Evaluation of existentialism and its impact on contemporary literature, drama, art, and society.

520 Philosophy of Mind (3) The human mind, according to representative views. Presuppositions and implications, both scientific and philosophic, traced and analyzed. The mind-body problem, perception, memory, and the implications of depth psychology.

522 Philosophy of Science (3) The course begins with ease studies in science and derives general principles from them. Scientific law, analogy, models, variant theories, confirmation, and interpretation

523 Philosophy of Language (also LIN 523) (3) Problems of language and oral communication,

with emphasis on problems of reference.

530 American Philosophy (3) American views of man, society, and the universe, from colonial times to the 20th century.

• 531 Oriental Philosophy (3) Central figures and classic teachings of Eastern philosophy and religion: Islam, Hinduism, Buddhism, Confucianism, Taoism, and Shintoism; naturalistic and humanistic elements of decisive influence on the culture of the Orient.

536 Symbolic Logic (3) Basic principles and methods of symbolic logic. Practice in determining validity of sentential and quantificational arguments. The algebra of classes.

• 590 Independent Studies in Philosophy (3)

• 599 Philosophic Concepts and Systems (3)

Basic concepts of the philosophic enterprise: form, matter, the eategories, cause, and purpose. Relation of premises to method and conclusions. Rival theories are compared for justification and adequacy.

6t0 Thesis (3-6)

• 640 Seminar (3) Study and evaluation of the major works of one philosopher, such as Plato, Aquinas, Kant, or Wittgenstein.

The following undergraduate course may also be taken for graduate credit, when properly approved: PHI 470 Biomedical Ethics, PHI 480 Environmental Ethics, PHI 482 Social Philosophy.

• This course may be taken again for eredit.

Political Science

106 Ruby Jones Hall West Chester University West Chester, PA 19383 610-436-2743

Dr. Shea, Chairperson

Mr. Burton, Public Administration Adviser

Dr. Milne, Director, M.S. in Administration; Coordinator of Graduate Studies

PROFESSORS

Robert J. Marbach, Ph.D., *Temple University* James S. Milne, Ph.D., *Temple University* John C. Shea, Ph.D., *University of Pittsburgh*

ASSOCIATE PROFESSORS

William F. Burns, M.A., Case Western Reserve University
A. Wayne Burton, M.A., University of Pennsylvania
Lawrence V. Iacono, M.Ed., West Chester University
Yury Polsky, Ph.D., University of Michigan
Bhim Sandhu, Ph.D., University of Missouri
Frauke Schnell, Ph.D., State University of New York at Stony Brook

ASSISTANT PROFESSORS

R. Lorraine Bernotsky, D.Phil., Oxford University Peter H. Loedel, Ph.D., University of California, Santa Barbara

Programs of Study

The Department of Political Science offers the master of science in administration with a concentration in public administration. This is an interdisciplinary degree described in the section on the master of science in administration.

MASTER OF SCIENCE IN ADMINISTRATION

Concentration in Public Administration (36 semester hours)

Required: Administration Core 18 semester hours

ADM 501, 502, 503, 504, 505, and 506 or 507

Option 1: Public Administration Core* 18 semester hours

Focus on state and local government

ADM 500 Methods and Materials of Research (3)

ADM 600 Research Report (3)

GEO 525 Urban and Regional Planning (3)

GEO 527 Planning Law and Organization (3)

PSC 544 American Public Policy (3)

PSC 549 Politics of Bureaucracy and Administrative Behavior (3)

Option 2: Individually Contracted Public

Administration Core* 18 semester hours

Specialized focus, taken under advisement, to meet the student's career goals and needs

ADM 500 Methods and Materials of Research (3)

ADM 600 Research Report (3)

PSC 544 American Public Policy (3)

PSC 549 Politics of Bureaucracy and Administrative Behavior (3) Electives (6)

The objective of option 2 is to allow students to select courses from University graduate programs to tailor a program suitable to their career goals or specialized needs.

Both concentration options allow for an internship experience (ADM 612 Internship) of 3-6 semester hours, depending on prior student preparation. Students with little or no organizational work experience may be required to successfully complete ADM 612 as an *additional* 3-6 hours in the concentration.

A comprehensive examination in the concentration is required. The examination will be based on corc and concentration course work.

*Students with undergraduate majors in political science may be permitted, under advisement, to substitute appropriate courses.

COURSE DESCRIPTIONS POLITICAL SCIENCE

Symbol: PSC/PAD

515 Women in Politics (3) The role of women in politics is surveyed. Considerations include the relationship between the sexes as it has an impact on politics.

525 The American Presidency (3) Analysis of the presidency, stressing its evolution into a modern institution and the contemporary behavioral aspects of the office. Personality, power, and campaign strategy in conjunction with presidential relations with the executive branch, Congress, courts, and the media.

531 Mndern Political Theory (3) Critical analysis of enduring political problems as seen primarily in the writings of theorists from Machiavelli to the present; basic concepts of political science; theories concerning the proper role of the state in society.

532 International Relations (3) Factors motivating the actions of nations; machinery evolved by nation states for effecting their various policies. Methods of diplomacy, international law, and international organization.

533 Congressional Politics (3) The politics of, and the legislative process in, Congress, Internal influences on the Congressional performance, such

as rules, norms, and behavior, and external influences including the executive branch and interest groups.

534 American Political Parties (3) Patterns, functions, and history of the American political party system at national, state, and local levels. Theoretical and empirical studies of political interest groups, public opinion, and voting behavior. 540 American Constitutional Law (3) Evolution of constitutional law through study of the leading decisions of the Supreme Court and their significance for the American governmental system. 541 Latin American Culture and Politics (3) Comparative analysis of contemporary Latin-

American systems. Stress of political culture, decision making, ideologies, and political processes.

542 Dynamics of Public Opinion and Political Behavior (3) The political role and style of masses and elites; uses and abuses of polls, political socialization, voting behavior, campaigning, and media. Understanding individual opinion formation (micro) and mass publics (macro).

544 American Public Policy (3) Survey of literature; examination of approaches; discussion of concepts and issues in the field of American politics and policy processes.

548 The Communist Powers (3) Comparative study of various Communist systems, particularly the U.S.S.R. and China. Elite-mass relationships: role of Marxism-Leninism; party, economic, and political structures. Secondary attention to Eastern Europe, Cuba, and nonruling parties.

549 Politics of Bureaucracy and

Administrative Behavior (3) In-depth examination of the fourth branch of government. Impact of administrative apparatus (bureaucracy) on public policy formulation and implementation in the United States.

551 The Politics of Non-Western Areas (3)

Problems of nation building, political participation, and elite-mass relationships in the less-developed nations. Latin American, Asian, or African nations may be stressed as a case study.

552 Civil Liberties and Civil Rights (3) Analysis of constitutional rights and governmental attitudes with respect to civil liberties. Emphasis on case-study method and role playing.

560 The Politics of Revolution (3) Synthesis of research, concepts, and theories of revolution. Stress on the meaning, causes, phases, and ideologies of revolution. Contemporary movements emphasized.

PAD 561 State and Local Government (3) Examination of the organization, functions, and politics of state and local government, including analysis of politics in states, counties, eities, and towns in urban, suburban, and rural areas. Intergovernmental relations in education, transportation, and welfare policy are examined. PAD 573 American Intergovernmental

Relations (3) Designed to familiarize students with the complex network of conflict, cooperation, and interdependence among national, state, and local government units. Topic areas include an

analysis of continuing evolution of American federalism, an examination of this relationship from state and city government perspectives, and a description of specific intergovernmental fiscal programs and policies.

590 Independent Studies in Political Science (1-3) Research projects, reports, and readings in political science. PREREQ: Approval of department chairperson.

ADMINISTRATION

Symbol: ADM

500 Methods and Materials of Research (3) Logic of scientific methodology research design construction. Stress on hypothesis development and testing, data collection, measurement problems, and theory application.

525 Grant Writing (3) Art of grant writing via proposal development processes. Targeting proposals to public and private agencies.

600 Research Report (3)

612 Internship (3-6) Intensive field placement in organization under faculty guidance and supervision. Precontracted learning objectives.

Professional and Secondary Education

207 Recitation Hall West Chester University West Chester, PA 19383 610-436-2958

Dr. Hynes, Chairperson

Dr. Haggard, Assistant Chairperson and Coordinator of Graduate Studies

PROFESSORS

Yi-Ming Hsu, Ed.D., University of Georgia John L. Hynes, Ph.D., State University of New York at Albany

ASSOCIATE PROFESSORS

Kimberlee S. Brown, Ph.D., University of Pennsylvania Cynthia Haggard, Ed.D., Indiana University John Holingjak, Jr., M.Ed., Temple University Lesley A. Welsh, Ph.D., University of Connecticut

ASSISTANT PROFESSORS

David L. Bolton, Ph.D., Florida State University John Kinslow, Ph.D., Temple University Robert S. Kurzinsky, Ed.D., Nova University Thomas Mastrilli, Ed.D., University of Pittsburgh

Programs of Study

The Department of Professional and Secondary Education offers graduate programs leading to teacher certification, as well as the master of education and master of science degrees.

MASTER OF EDUCATION IN SECONDARY EDUCATION

Dr. Haggard, Program Coordinator

This program is designed primarily to strengthen the professional knowledge, skills, and understanding of the graduate student. Practicing teachers will increase their knowledge base of effective teaching. In addition to the education courses offered, the 15 semester-hour elective area allows students to increase their knowledge in the academic content area.

Admission Requirements

In addition to meeting admission requirements of the University, the student must:

- 1. Be approved by the Department of Professional and Secondary Education for graduate work.
- 2. Attain an acceptable score on the Graduate Record Examination or the Miller Analogies Test. It is strongly recommended that the applicant have a valid teaching certificate. Applicants whose certification is not in secondary education may, at the department chairperson's discretion, be required to take course work beyond the minimum semester-hour requirements for the degree.

Upon admission, students will be assigned advisers who will help them to outline the appropriate program. All work for the program must be approved by the program coordinator.

Requirements for Admission to Degree Candidacy

During the precandidacy period, the student must:

- 1. Attain full status, if admission status to the program was provisional.
- 2. Complete these required courses: EDF 500 and 510, and EDP 550.
- Achieve a minimum overall grade point average (GPA) of 3.0 and a minimum GPA of 3.0 in the required courses in the area of concentration.
- Show evidence of academic, personal, and professional qualities that satisfy the adviser and the departmental graduate committee.

Degree Requirements

(36 semester hours)

- I. Required Courses 9 semester hours EDF 500 and 510, EDP 550
- 11. Area of Concentration Requirements 12 semester hours A minimum of 12 semester hours must be selected from the following: EDF 503, 504, 505, 506, 507, 509, 515, 516, 520, 570, 580, 581, 589, 590; EDM 501; EDP 531; EDS 502, 524, 599; EDU 501, 502
- 111. Electives 15 semester hours The electives may be from courses listed above, or from courses in the student's teaching field. They also may be a combination of both.

Comprehensive Examination

Students must perform satisfactorily on a written comprehensive examination.

To be eligible, students must have:

1. Taken the required courses: EDF 500 and 510, and EDP 550.

- Completed 28 semester hours of work, including the nine semester hours of required courses and 12 semester hours from the area of concentration.
- 3. Attained a minimum overall GPA of 3.0 and a minimum GPA of 3.0 in the required courses and the courses in the area of concentration.
- 4. Received the approval of the departmental graduate coordinator. Students who fail the comprehensive examination are allowed a second attempt. A second failure terminates candidacy.

Secondary Teaching Certification

The Department of Professional and Secondary Education offers a non-degree program for post-baccalaureate students seeking secondary teaching certification. Students must apply through the Office of Graduate Studies for the certification program and meet admission requirements for the University. The program consists of six education courses, including a methods course offered by the academic area, plus a full semester of student teaching. Students must have academic course work in their subject area discipline(s) equivalent to an undergraduate B.S.Ed. from West Chester University. Undergraduate transcripts will be evaluated by the content area department to assess any additional course work that may be needed in the academic discipline. Courses required for certification include EDF 589, EDM 501, EDP 531, EDP 550, EDS 599 and a subject area methods course. (Note: Some course work taken for certification may count for the M.Ed. in secondary education.)

MASTER OF EDUCATION

The master of education program has concentrations in chemistry, **French**, **German**, **history**, **Latin**, and **Spanish**, offered cooperatively by the School of Education and the College of Arts and Sciences. The academic requirements for each concentration are found under the respective department listing.

With this degree, students can strengthen their knowledge in the major subject area, as well as their professional knowledge and competence.

Students earning degrees in this program are advised primarily by their academic department representative but also must consult with a Professional and Secondary Education adviser concerning the education portion of their program. Note: This program does not lead to teacher certification without additional course work.

Degree Requirements

(36 semester hours)

Professional Education Requirements*
 A. EDF 510 Educational Foundations (3)

12 semester hours

- B. A minimum of one course from each of the following groups:

 Group 1
 - EDF 516 Resource Allocation in the Schools (3)
 - EDF 520 Comparative Education (3)
 - EDF 580 History of American Education (3)
 - EDF 581 Philosophy of Education (3)
 - EDF 589 Sociological Foundations of Education (3)

Group 2

- EDF 503 The Emerging Curriculum (3)
- EDF 507 Values Clarification in Human Relations (3)
- EDF 509 Contemporary Teaching Trends (3)
- EDP 531 Principles of Educational Testing (3)
- EDP 550 Advanced Educational Psychology (3)
- EDP 557 Essentials of Learning (3)
- EDP 560 Behavior Modification (3)
- EDP 569 Adolescent Development and Learning (3)
- EDS 524 Supervision of Student Teaching (3)
- EDU 502 Human Relations in the School and Community (3)

Group 3

- EDC 567 Group Dynamics (3)
- EDF 504 Middle School Workshop (3)
- EDF 505 Individually Prescribed Instruction (3)
- EDF 506 Design and Use of Individualized Learning Packages (3)
- EDF 570 The Community/Junior College (3)
- EDF 590 School Law (3)
- EDS 502 Secondary School Curriculum (3)
- EDU 501 Curricular Adaptations for the Disadvantaged (3)
- II. Concentration Requirements

21-23 semester hours

- A. Methods and Materials of Research (1-3)
- B. Academic subjects (18-20)

(See respective academic department for details)

III. Electives (Professional or Academic)* 1-3 semester hours

Comprehensive Examinations

The student must perform satisfactorily on the final comprehensive examination covering the subject matter concentration and the professional education requirements.

*Chosen in conference with the secondary education and academic advisers according to the student's needs.

COURSE DESCRIPTIONS FOUNDATIONS

Symbol: EDF

500 Methods and Materials of Research in Education (3) Historical, descriptive, and experimental methods of research. Methods for locating, evaluating, interpreting, and reporting research data. Each student prepares a research prospectus.

501 Methods and Materials of Research for Elementary Education (3) Historical, descriptive, and experimental methods of research. Methods for locating, evaluating, interpreting, and reporting research data. Introduction to graduate study for elementary majors.

502 Methods and Materials of Research for Counselor Education (3) Designed to enable the counselor to read experimental, quasi-experimental, descriptive, and correlational research reported in the professional journals. Both univariate and multivariate designs are emphasized.

503 The Emerging Curriculum (3) Curriculum trends in the 1980s and 1990s, focusing on various reform efforts and including issues of race, gender, class, and ethnicity.

504 Middle School Workshop (3) Philosophy, administration, curriculum, staff, and facilities

necessary for the most efficient educational experience in the intermediate levels of school.

505 Individually Prescribed Instruction (3) Individually prescribed instructional techniques as applied in the classroom and intensive learning centers. Techniques of academic diagnosis, prescription production, and electronic learning. Students will have an opportunity to work directly with hardware and software components of an intensive learning center. (May be arranged as a workshop.)

506 Design and Use of Individualized Learning Packages (3) A review of commercially available individualized learning activity packages that permit students to progress through a learning continuum at their own pace. Students will be required to design and construct individualized learning packages in their teaching areas.

507 Values Clarification in Human Relations (3) Knowledge of the theories of the values clarification processes as defined by Simon and others. Skills in application of the values clarification processes in personal decisions, in the classroom, and in society. (May be arranged as a workshop or as modularized independent study.)

509 Contemporary Teaching Trends (3) Team teaching, programmed instruction, and various

media of communication in the elementary and secondary schools are evaluated. Effective adaptation to newer practices is emphasized.

510 Educational Foundations (3) History of education, integrated with educational philosophy and thought; the long evolution of education theory and issues.

515 Federal and State Role in Education (2) The past, current, and future role of the federal and state governments in education in the United States. Emphasis on applications to the Commonwealth of Pennsylvania. Impact of federal legislation since 1958.

516 Resource Allocation in the Schools (3) The relationship between the American economy and the efficient allocation of resources within school systems will be examined. Designed for teachers, administrators, school board members, and parents. 520 Comparative Education (3) Major problems of education in a number of other countries are related to similar problems in the United States. Contrasting purposes and philosophies, and differences in organization and administration are ana-

570 The Community/Junior College (3) An analysis of the programs, problems, and students of a two-year college. Emphasis on the develop-

ment, special philosophies, and current issues relating to the community or junior college. Designed for students preparing to be teachers and/or administrators in these colleges.

580 History of American Education (3) Nature and direction of American education, studied through individual and group research.

581 Philosophy of Education (3) Selected philosophies and their influence on educational principles and practices in a democratic social order.

589 Sociological Foundations of Education (3) Study of the socio-cultural influences on the structure of American educational institutions.

590 Schnot Law (3) Legal structure for educational organization on state, intermediate, and local levels. Legal status of the board of education;

legal responsibilities of the teacher; legal responsibilities of the board of education to the student,

598 Workshop in Secondary Education (3)

599 Workshop in Professional Education (3)

EDUCATIONAL PSYCHOLOGY

Symbol: EDP

531 Principles of Educational Testing (3)
Designed to develop in teachers the skills important in the three areas of educational testing: teacher-made tests (objective and essay); computerized programs for grading and reporting results, and for improving the test quality through item-analysis procedure; and the evaluation of the psychometric characteristics of standardized tests.

SECONDARY EDUCATION

Symbol: EDS

502 Secondary School Curriculum (3) Current practices and trends in reorganizing the secondary school curriculum in the major academic areas. The various integrating techniques. Curriculum development.

524 Supervision of Student Teaching (3)

Designed for teachers who cooperate, or expect to cooperate, in West Chester University's student teaching program. Basic principles, practices, materials, and resources for an effective student teaching program. PREREQ: Certification for teaching. 590 Independent Study (1-3) Enrollment by permission only; number of credits determined by department.

599 Workshop Secondary Education (3)

Educational Research

Dr. Hsu, Program Coordinator

The School of Education offers a degree program leading to the master of science in educational research. The degree is designed primarily for those desiring research positions in local school districts, but it is also appropriate for research positions in colleges and universities, community colleges, governmental agencies, regional educational laboratories, and industry.

MASTER OF SCIENCE IN EDUCATIONAL RESEARCH

Admission Requirements

To be admitted to the program, the applicant must have:

- 1. A minimum overall GPA of 2.5 in undergraduate studies and 2.75 in the major field.
- 2. Satisfactory performance on the General Aptitude Test of the Graduate Record Examination.
- 3. Personal interview with the coordinator of the program. Any candidate admitted to graduate study, but not to the degree program in educational research, may take RES courses with the permission of the coordinator. There is no guarantee that courses taken by a nondegree student may later satisfy degree requirements for the M.S. in educational research.

Degree Requirements

- 1. Satisfactory completion of the curriculum outlined below.
- An overall GPA of 3.0 in graduate courses taken in the degree program.
- 3. Satisfactory performance on the comprehensive examination.
- Completion of a research report or master's thesis, approved by the coordinator.

Requirements for Admission to Degree Candidacy

Upon completion of 12 semester hours, which must include PSY 501 (Introductory Statistics for the Behavorial Sciences) and EDF 500 (Methods and Materials of Research in Education), candidates will be advanced to degree candidacy, provided they have maintained a minimum GPA of 3.0 and passed a qualifying examination.

The Internship

After mastery of the core courses (EDF 500, PSY 501 and 502, and RES 520), students will serve an internship with an outside agency, or

in the Office of Institutional Research conducting educational research. During this period, students will use the skills they have developed to design and conduct a research project under the joint supervision of University and/or host institutional personnel.

The Comprehensive Examination

To be eligible for the comprehensive examination, the candidate must:

- 1. Have completed at least 28 semester hours and all core courses prior to the semester in which the examination is taken.
- 2. Have maintained an overall GPA of at least 3.0.

Candidates must indicate by letter their intention to take the examination. The coordinator should receive this letter within the first 10 days of the semester in which the candidate wants to take the examination. Candidates who fail the comprehensive examination are permitted one re-examination after an interval of at least one semester but not more than two years.

Curriculum

(36-39 semester hours)

CSC 550 Computers in Education (3)

EDC 540 Assessment Methods in Guidance (3)

EDF 500 Methods and Materials of Educational Research (3)

EDF 510 Educational Foundations (3)

EDP 531 Principles of Educational Testing (3)

EDP 550 Advanced Educational Psychology (3)

PSY 501 Introductory Statistics for the Behavorial Sciences (3)

PSY 502 Advanced Statistics for the Behavorial Sciences (3)

RES 520 Research Design (3)

RES 590 Independent Study in Educational Research (1-3)

RES 592 Internship Program in Educational Research (3)

Optional:

RES 610 Thesis (3) or

RES 650 Research Report (3) plus three-credit elective

Elective courses:

CSC 515 Introduction to Computer Programming (3)

PSY 526 Program Evaluation (3)

Others to be determined by program coordinator.

COURSE DESCRIPTIONS EDUCATIONAL RESEARCH

Symbol: RES

520 Research Design (3) Principles for efficient design of experiments and other types of observational programs. Sampling techniques, methods of analysis, threats to valid inference. PREREQ: PSY 501.

590 Independent Study in Educational

Research (1-3) Research project, reports, readings in educational research. PREREQ: Coordinator's

592 Internship Program in Educational

Research (3) Opportunity for students to design, conduct, and analyze a study and to prepare a report

of the research. The internship is served in local educational agencies, county offices, federal project centers, the Pennsylvania Department of Education, or other research environments. The intern is supervised by both host and University personnel.

610 Thesis (3)

650 Research Report (3)

Environmental Education

Dr. Mastrilli, Coordinator

Graduate students interested in developing a concentration in the area of environmental education should contact the program coordinator.

COURSE DESCRIPTIONS ENVIRONMENTAL EDUCATION

Symbol: EDO

505 Conservation Education Curriculum (K-12) (3) Conservation education as it exists in the present school curriculum and ways to integrate conservation into elementary and secondary school disciplines. Characteristics, interrelationships, and uses of our natural resources; problems and policies of industrial management in conservation as they relate to the school curriculum.

510 Methods in Conservation Education (3)

Basic concepts and practices of conservation and outdoor education and their role in the school program.

511 Environmental Education Workshop (3) A field-centered learning experience. Designed to integrate the wide range of backgrounds and interests among the participants. Based on West Chester campus and/or the campuses of other universities.

515 History of Conservation (3) Development of the conservation movement in the U.S. with emphasis on the progressive adaptation of conser-

vation to our changing social and economic order.

520 Organization and Administration of Outdoor Education (3) Basic concepts of outdoor education: the role of outdoor education in the school program; the initiation and administration of outdoor education.

525 Independent Studies in Environmental Education (3) Special research projects, reports, and readings in conservation and outdoor education. PREREQ: Permission of coordinator.

598 Workshop in Environmental Education (3)

Psychology

Peoples Building West Chester University West Chester, PA 19383 610-436-2945

Dr. Kerr, Chairperson

Dr. Duncan, Assistant Chairperson

Dr. Bonifazi, Coordinator of Graduate Studies

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Programs of Study

The Department of Psychology offers the master of arts degree with concentrations in clinical psychology, industrial/organizational psychology, and general psychology. The Department of Psychology also cooperates in offering the M.S.A. degree in human resource management by teaching appropriate courses in industrial psychology.

Admission Requirements

The minimum admission standards for the Department of Psychology are an undergraduate GPA of 3.0; a psychology GPA for three or

more courses of 3.25; GRE scores of 500 on both verbal and quantitative areas; advanced psychology portions of the GRE (undergraduate psychology majors only), and three letters of reference. An interview with the department admissions committee also may be required. Typically, admissions are made on a once-a-year basis with March 1 serving as the application deadline. Students accepted into a concentration may, with the approval of the graduate committee, transfer to another concentration. A few applicants who do not fully meet the outlined admission requirements may be admitted on a provisional basis depending on their maturity, relevant work experiences, and academic promise.

MASTER OF ARTS IN PSYCHOLOGY

(36-42 semester hours)

Several degree options are offered. The Master of Arts degree is offered with a concentration in clinical psychology for students who wish to work in a mental health setting or to continue their education at the doctoral level. A concentration in general psychology is offered for students interested in research, teaching, or in continuing their graduate studies. The concentration in industrial/organizational psychology is designed for students interested in employment in business or industry or for those who wish to continue their education at the doctoral level in a related area.

Students may have to take one or more courses during the summer to complete their program. Students in the general psychology program must write a thesis. Students in the industrial/organizational program must complete an internship and a research report. Students in the clinical and program must pass a comprehensive exam *or* write a thesis. More details about the program are available in the department's graduate handbook.

Concentration: Clinical Psychology

(40-42 semester hours)

The clinical concentration involves the following required course work: PSY 502, 517, 524, 527, 544, 549, 559, and 595. Students also are required to take 12 semester hours of electives selected from PSY 506, 509, 512, 513, 514, 530, 543, 547, 550, 565, 590, 600, and 610. In addition, a 4-6 semester-hour clinical practicum (PSY 615) is required.

Concentration: General Psychology

(36 semester hours)

The following 12 semester hours of course work are required: PSY 502, 506, 509 or 512, and 524. All students in this concentration are required to complete a research report (PSY 600) and write a thesis (PSY 610). All students also must complete 18 semester hours of

electives. Subject to approval, six of the elective credits may be taken from the graduate offerings of other departments. (Note: No more than six semester hours of 400-level courses are allowed as electives.)

Concentration: Industrial/Organizational Psychology (36-39 semester hours)

The industrial organizational concentration includes 18 semester hours of required course work (PSY 502, 524, 560, 562, 563, and 566). A three-credit internship (PSY 630) and a three-credit research experience (PSY 600) also are required. In addition, students must take at least four elective courses which, in combination with their internship and research experience, will enable them to explore a particular aspect of the field in greater depth. The elective courses may be taken outside of the Department of Psychology. Courses restricted to clinical psychology majors cannot be taken as electives. With careful selection of electives, internship, and research focus, students will be able to develop specialization in performance analysis and training, personnel evaluation and placement, or aspects of group and organiza-

tional processes in industrial/organizational psychology. Students may, with permission, enroll for the thesis (PSY 610) for three hours. Students electing the thesis option will complete 39 semester hours.

MASTER OF SCIENCE IN ADMINISTRATION

Concentration: Human Resource Management

(36 semester hours)

The Department of Psychology participates in an interdisciplinary degree program leading to a master of science in administration with a concentration in human resource management. (See the section describing "Administration.")

Concentration: Training and Development (36 semester hours)

The Department of Psychology participates in an interdisciplinary degree program leading to a master of science in administration with a concentration in training and development. (See the section describing "Administration.")

COURSE DESCRIPTIONS* PSYCHOLOGY

Symbol: PSY

- 501 Introductory Statistics for the Behavioral Sciences (3) Central tendency, variability, standard scores, correlation, probability, sampling, tests of hypotheses, "t" test, chi square, distribution-free statistics, and introduction to analysis of variance. PSY 501 is particularly recommended for those who are weak in, or have not previously been exposed to, behavioral sciences statistics.
 502 Advanced Statistics for Behavioral
- 502 Advanced Statistics for Behavioral Sciences (3) This course covers inferential statistical techniques with emphasis on application to research in psychology and related areas. PRE-REQ: PSY 501 or equivalent.
- 506 Learning and Cognition (3) Survey and critical review of existing theories of learning and relevant research data.
- 509 Advanced Social Psychology (3) Emphasizes contemporary approaches to the study of social behavior including cognitive, social, and experimental and quasi-experimental research methodology.
- 512 Psychology of Personality (3) The interaction and effects of forces that influence personality development. Normal and neurotic development are contrasted. Principles of personality measurement are explored.
- 513 Theory and Practice of Psychodrama (3) This course introduces theory and practice of psychodrama as a psychotherapeutic modality, emphasizing psychodramatic and sociometric techniques. It gives each person a chance to participate in using sociometry and psychodrama techniques and integrates the theoretical with the applied components of psychodrama.
- 514 Theory and Practice of Psychodrama II (3) Continuation of PSY 513 at an advanced level with emphasis on clinical sociometry, the social atom concept, auxiliary ego techniques, and directing. Instruction will include both didactic and experiential modes.
- 517 Psychopathology (3) Advanced study of abnormal human behavior and a description of pertinent types, including symptoms, causes, and treatment. Current and recent theoretical approaches and research lindings relevant to the etiology and treatment of these disorders. PREREQ: An undergraduate course in abnormal psychology and PSY 512, or equivalents, or permission of instructor.
- 524 Psychometrics (3) A survey of measurement theory in psychology with emphasis on the logic of measurement, scaling models, statistical meth-

ods, construction of valid and reliable measures. PREREQ: PSY 501 or equivalent.

- 526 Program Evaluation (3) A survey of procedures for planning and evaluating programs in psychology, education, government services, health and welfare, etc. Topics include needs analysis, statement of objectives, definition and verification of treatment, operational measures, evaluation design, analysis interpretation of data, and report writing. Case studies of evaluation from a variety of disciplines will be reviewed.
- 527 Cognitive and Behavior Therapy (3) Application of learning principles and environmental control to behavior change. Foundation principles, techniques, and assessment methods of modification. PREREQ: PSY 506 or equivalent.
- 530 Human Sexual Behavior (3) The study of those variables under which human sexual behavior functions. Research from sociological and medical studies is integrated with psychological knowledge.
- 543 Psychology of Group Processes (3) Survey of psychological group processes, tracing the origins and historical development of the major theoretical orientations.
- 544 Intelligence Testing (3) Historical development, administration, scoring, and interpretation of the Wechsler scales. PREREQ: PSY 524 or equivalent. By permission only (usually restricted to clinical psychology majors).
- 547 Human Intimacy (3) A study of processes and factors in establishing, maintaining, and terminating relationships via the use of group methods.
 549 Personality Assessment (3) History and theory of personality testing. Introduction to administration, scoring, and interpretation of projective

and objective techniques. PREREQ: PSY 517 or equivalent. Clinical psychology majors, or others with permission of instructor.

- 550 Independent Studies in Psychology (1-3) Research projects, reports, and readings in psychology. PREREQ: Approval of department graduate coordinator.
- 559 Psychotherapy (3) Theoretical considerations, principles, techniques, and problems involved in counseling and psychotherapy. Usually restricted to clinical psychology majors. PREREQ: PSY 512 and 517 or equivalents.
- 560 Industrial Psychology (3) Application of individual differences, learning, and aptitudes to functions such as personnel selection, placement, training, and evaluation.
- 562 Organizational Psychology (3) Focus on the relation between the individual and the organization. Elements of the organization that affect

behavior are considered. Research designs appropriate to individual cases are presented.

- 563 Performance Analysis (3) An accomplishment-based approach to the analysis of human performance. Topics include measurement and analysis of performance opportunities and strategies for improving performance.
- 564 Human Factors (3) Methods and results of experimental psychology pertinent to human-machine relationship problems. Workplace design, systems approach, control and display, and manin-space challenges are considered.
- 565 Psychology of Women (3) A study of behaviors and experiences of women; biological, cultural, interpersonal, and intrapersonal determinants of women's actions, thoughts, and feelings are explored.
- 566 Seminar in Industrial/Organizational Psychology (3) Recent technical, legal, social, and ethical aspects of the field are covered.
- Affirmative action and assessment, equal opportunity, minorities and women in the work force, and other pertinent issues are emphasized.
- 567 Psychology and Training (3) An overview of the training process in organizations. Topics range from needs analysis to evaluation of training programs.
- 590 Topical Seminar in Psychology (1-
- 3) Special topics in psychology not offered under existing regularly offered courses. PREREQ: Permission of instructor or graduate coordinator.
- 595 Clinical Psychology (3) Survey of clinical techniques used in assessment and treatment of psychological disorders. Restricted to clinical psychology majors. PREREQ: PSY 559.
- 600 Research Report (3) An original review of the literature.**
- 610 Thesis (3-6) An original empirical study. PREREQ: Permission of graduate coordinator.**
 615 Clinical Practicum in Psychology (2-6)
 Supervised professional participation in applied psychological activities, or projects in cooperating
- * All courses in the Department of Psychology are restricted to those students who have been admitted to a degree program by the Department of Psychology, or to those who have received special permission to register for a course from the Department of Psychology graduate coordinator.
- ** While work on these courses may be completed any semester, students are encouraged to enroll for them during the summer sessions.

 Courses may be cancelled or the semester changed as required by enrollment. Summer courses depend on adequate enrollment.

agencies and institutions. PREREQ: PSY 502, 512, 517, 524, 544 or 549, 559, and 595. Restricted to clinical psychology majors and recommendation of graduate clinical faculty.** 620 Practicum in School Psychology (3) Supervised experience as a school psychologist. Offered for students seeking out-of-state certification as a school psychologist (West Chester University does not presently offer a program leading to certification as a school psychologist in the Commonwealth of Pennsylvania.) 630 Internship in Industrial/Organizational Psychology (3) Supervised professional participation in applied psychological activities within a

The following 400-level course is frequently taken for graduate credit.

445 Organizational Development (3) Major theoretical, research, and applied issues in organizational diagnosis and change. Class sessions are experientially oriented.

These additional 400-level courses may be taken for elective graduate credit with the permission of the course instructor and the student's program adviser, and/or the Department of Psychology graduate coordinator: PSY 443 (Psychology of Group Processes); 445 (Organizational Development); 464 (Physiological Psychology); 470 (Sensory and Perceptual Processes); 475 (Cognitive Psychology); 480 (Neuropsychological Rehabilitation); 490 (Topical Seminar in

Psychology:

Descriptions of these courses can be found in the current West Chester University Undergraduate Catalog.

Requirements in addition to those existing for undergraduates are imposed for any 400-level course taken for graduate credit. No more than six credits of 400-level course work may be applied toward a graduate degree.

**While work on these courses may be completed any semester, students are encouraged to enroll for them during the summer sessions. Courses may be cancelled or the semester changed as required by enrollment. Summer courses depend on adequate enrollment.

Reading—See Literacy

business or organizational setting. PREREQ:

Secondary Education—See Professional and Secondary Education

Social Work

Permission of instructor.

103 McCoy Center West Chester University West Chester, PA 19383 610-436-2527

Prof. Joyner, Chairperson

Dr. Ortiz, Director of Social Work Programs, M.S.W. Program Director

Dr. Siegel, M.S.W. Curriculum Chair Prof. Hicks, Director of Field Practice

ASSOCIATE PROFESSORS

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Susanne Wieder, M.S.W., Smith College

Program of Study

The Department of Social Work is approved to offer the M.S.W. degree by West Chester University and the State System of Higher Education. The Council on Social Work Education (CSWE) has reviewed the program's application for accreditation and has admitted it to candidacy.

The M.S.W. is a 62-hour program with a concentration in direct practice with individuals, families, and communities. Designed for full-time students, this program can be completed in two academic years and four years part time; however, applicants holding a B.S.W. degree may qualify for advanced standing and reduce their time of enrollment. The first year of study focuses on foundation or generalist social work practice, and the second year focuses on the concentration. Besides course work, students are placed for internships concurrently in social service agencies each year of their program. Advanced study in working with individuals, families, and communities is augmented by six hours of electives taken in the department

or throughout the University, at the graduate level. Also, as a requirement for graduation, students complete and defend a practice research paper. Upon graduation students are eligible for licensure as social workers in the Commonwealth of Pennsylvania.

Applications are available from the Office of Graduate Studies.

Applications are available from the Office of Graduate Studies. Applications that are complete with the following items will be forwarded to the M.S.W. program director and reviewed by the department's admissions committee. A completed application contains the following:

- · two-page University application
- · three letters of recommendation
- · official transcripts from all colleges and universities attended
- GRE or MAT scores
- personal statement following departmental guidelines
- statement on professional and volunteer experiences related to social work
- · TOEFL score if applicant is not a native English speaker
- · appropriate visa for international students
- evidence applicant has complied with Act 33 and criminal clearance check (required for students' internships in social service agencies)

A limited number of advanced-standing slots are open to students holding a B.S.W. from a program accredited by the CSWE. This optional form of program admittance allows the student to enter the program during the summer, enroll in three "bridge" courses, and move directly into the concentration (second) year. Designed for the full-time student, those with advanced standing status will graduate the following May. To qualify for this level of enrollment, applications must meet the minimum criteria as follows:

- B.S.W. from a CSWE-accredited program within the last five years
- a GPA of 3.25 (based on a 4.0 scale) in the social work major
- an overall cumulative GPA of 3.0 (based on a 4.0 scale)
- an advanced standing recommendation completed by the director of the B.S.W. program that granted their degree
- meet all requirements set for regular admission to the M.S.W. program (see above)
- no grades lower than a B in the following undergraduate courses: two courses in practice, two courses in policy, two courses in human behavior in the social environment, one course in research methods, one course in statistics, a field experience of at least 400 clock hours supervised by an M.S.W. field instructor

Because the number of admission slots for advanced standing is limited, students who do not meet the criteria or are not admitted to this status because it is already filled automatically will be reviewed for regular admission.

Students applying to the program who have completed work in other accredited M.S.W. programs should make an appointment with the director to review official transcripts of previously completed work. Courses for transfer credit will be evaluated for compatibility with the West Chester University M.S.W. curriculum on the basis of similarity in course objectives, text books, assignments, and required readings. Only practice and policy courses from CSWE-accredited programs will be considered for transfer into the practice and policy sequences.

Students wishing to transfer into the program credits taken in nonsocial work programs may petition to have courses in human behavior, research, and elective areas considered. The same criteria referred to above will apply to these requests.

Transfer requests should be put in writing with supportive documentation: transcript and course syllabi, and submitted to the director. Transfer credit is limited to courses in which a grade of A or B have been attained. No credit is given for prior life or employment experiences.

MASTER OF SOCIAL WORK

Course of Study

Typically, the M.S.W. student enrolls in 15 hours each of their first two semesters and 16 hours in their last two. The program is broken down into two segments, the foundation and concentration years. Following is the course of study generally taken by students in the program.

Foundatio	on Year
Fall Semes	ter 15 semester hours
501	Social Work Practice I (3)
533	Methods of Social Work Research (3)
541	Social Welfare Policy and Services (3)
554	Human Behavior in the Social Environment (3)
596	Practicum 1 (3)
Spring Sen	nester 15 semester hours
502	Social Work Practice II (3)
511	Oppression: Human Growth and Development (3)
534	Advanced Research Methods (3)
555	Human Behavior in Family Groups and Community (3)
597	Practicum II (3)

Advanced Year

Fall Semest	ter 16 semester hours
535	Applied Social Work Research Seminar (3)
561	Advanced Social Work Practice with Individuals (3)
273	A 4 1 C 1-1 W - 1- D 1 14- E 11 (2)

Advanced Social Work Practice with Families (3)

Advanced Social Work Practice in Communities (3)

598 Practicum III (4)

16 semester hours Spring Semester 542 Advanced Social Work Policy Analysis and Change (3)

564 Psychopathology in the Social Environment (3)

599 Practicum IV (4) 500-600 level electives (6)*

A part-time study plan is offered to a select number of students. Those admitted to this plan must commit themselves to the following schedule:

Year 1

Fall Semes	ster	9 semester hours
501	Social Work Practice 1 (3)	
554	Human Behavior in the Social Envir	onment (3)
596	Practicum 1 (3)	
Spring Semester		9 semester hours

502 Social Work Practice II (3)

511 Oppression: Human Growth and Development (3)

597 Practicum II (3)

Year II		
Fall Sem	ester	6 semester hours
533	Methods of Social Work Research (3)	
541	Social Welfare Policy and Services (3)	
Spring S	emester	6 semester hours
534	Advanced Research Methods (3)	

Human Behavior in Family, Groups, and Communities (3)

Advanced Social Work Practice with Individuals (3)

10 semester hours

555 Year III

Fall Semester

562	Advanced Social Work Practice with Families (3)
598	Practicum III (4)
Spring Sen	nester 10 semester hours
542	Advanced Social Work Policy Analysis and Change (3)
563	Advanced Social Work Practice with Communities (3)
599	Practicum IV (4)
Year IV	
Fall Semes	ter 6 semester hours

Year IV		
Fall Semeste	er	6 semester hours
535	Applied Social Work Research Semi	nar (3)
Elective	(3)	
Spring Seme	ester	6 semester hours
564	Psychopathology in the Social Enviro	onment (3)
Elective	(3)	
*Electives car ing the summ	n be taken outside of the department with a er.	pproval and also dur-

COURSE DESCRIPTIONS SOCIAL WORK

Symbol: SWO

501 Social Work Practice 1 (3) This course provides an introduction to generalist social work practice including its models, purpose, method, values, and ethics. It incorporates a problem-solving framework and ecological systems perspective and stresses the influence of diversity on practice. 502 Social Work Practice II (3) This course focuses on change theories, intervention strategies, and extended knowledge and skills for working with individuals, families, groups, communities, and organizations, PREREQ: SWO 501. 511 Oppression: Human Growth and Develop-

ment (3) Within the context of a diverse and stratified society, this course examines the impact of discrimination and oppression on members of special groups, i.e., ethnic minorities, women, elderly, disabled, gays, and lesbians while considering the effects of diversity on human behavior and attitudes. It also considers the richness of human diversity. PREREQ: SWO 554.

533 Methods of Sociat Work Research (3) This course provides students with a theoretical foundation in the method of social work research. The characteristics of scientific inquiry, the structure of theories, problem and hypothesis formulation, models of research design, sampling, measurement, and the logic of casual inferences are taught.

534 Advanced Research Methods (3) In this course students learn advanced qualitative and quantitative data analysis skills, evaluation of one's own practice, and program evaluation. Particular attention is given to preparation for the student's applied research project. PREREQ: SWO 533.

535 Applied Social Work Research Seminar (3) Under the direction of a faculty member, M.S.W

candidates in the seminar propose, complete, and defend a research project that demonstrates their command of theory integration and research methodology as it applies to social work practice. Successful completion of this capstone course satisfies the Office of Graduate Studies requirement for a comprehensive examination for a master's degree. PREREQ: SWO 534; COREQ: SWO 598.

541 Social Welfare Policy and Services (3) This course emphasizes the historical, economic, political, and philosophical foundations of American social welfare policy:

542 Advanced Social Work Policy Analysis and Change (3) This course emphasizes advanced level critical and comparative analysis of social policy. Theories of social and organizational change, administration, and legislative advocacy also are reviewed and applied to policy implementation. PREREQ: SWO 541.

554 Human Behavior in the Social Environment (3) This course uses a developmental perspective to explore the interaction of biological psychological, and sociocultural systems, and the influence of human diversity as determinants of human behavior at various stages of the life cycle on a micro level.

555 Human Behavior in Family Groups and Communities (3) Utilizing both critical and systems approaches, this mezzo/macro level course focuses on assessing the impact of diversity, culture, and oppression on family, organizational, and community development. Multicentric models of family, group, and organizational behavior will be explored and implications for social work practice examined. PREREQ: SWO 554.

561 Advanced Social Work Practice with Individuals (3) Building on the problem-solving framework, this course focuses on theory-integrated practice. Particular attention is given to psychological, cognitive/behavioral, and social structural theories. PREREQ: SWO 502.

562 Advanced Social Work Practice with Families (3) This course will include advanced knowledge and skills for work with families. The focus is on the major theoretical approaches to work with families, including family systems, structural family therapy, and symbolic experiential family therapy. PREREQ: SWO 502.

563 Advanced Social Work Practice in Communities (3) This course will focus on approaches to social change in communities including planning, locality development, and social action models of community organization. Emphasis will be placed on advocacy, empowerment, and social justice with locational, identificational, and interest communities. PREREQ: SWO 502.

564 Psychopathology in the Social Environment (3) Using a bio-psycho-social ecological template for analysis, this course examines major childhood, adolescent, and adult psychiatric disorders. The impact of the medical model, the DSM IV, and managed care are evaluated in light of social work values and practice. PREREQ: SWO 541, 555, 561, 562, 563.

570 Social Work and Chemical Dependency (3) This course reviews the major approaches to understanding chemical dependency and to the assessment and treatment with individuals, families, and groups. The pharmacology of drugs and alcohol and the nature of the addiction is included as is the influence of culture, ethnicity, gender, the peer group, and social deviance.

571 Social Work with Older Adults (3) This course reviews the status and position of older Americans in society, the community, and the social service delivery system. There is a focus on social work assessment and intervention with elderly clients regarding issues of health, chronic illness, intellectual and emotional status, depression and dementia, relations with the family, caregiving social networks, poverty, retirement, death, and bereavement. Specific approaches to working with older adults are reviewed. PREREQ: SWO 502 or permission of instructor.

573 Advanced Theory and Practice with Severe Mental Illness (3) This course focuses on diagnostic theories and principles of assessment and intervention with the serverely mentally ill. PREREQ: SWO 502 or permission of instructor. 574 Micro-Practice in Occupational/Industrial Social Work (3) This course covers theory. knowledge, and skills necessary for conducting micro-level practice in workplace settings. PRE-REQ: SWO 502 or permission of instructor. 575 Social Work Administration (3) This course is designed to provide students with knowledge of the theory of social administration and administrative practice skills for work in social agencies. It incorporates managerial functions, organizational design, technological innovation, and the social

work mission and value base on behalf of clients in social agencies.

590 Seminar in Social Work (3) In-depth topics in social work offered to complement the program's concentration and not offered in required courses.

591 Independent Study in Social Work (1–3) An independent project developed by a student under the guidance of a specific faculty member.

596 Practicum 1 (3) This course is a structured field experience at an approved social agency for 250 hours during the semester. Students learn the beginning application of the generalist model of practice and professional social work roles. COREQ: SWO 501, 554.

597 Practicum II (3) This course involves a structured field experience at an approved agency for 250 hours during the semester. Students continue developing the role of beginning professional social worker and methods of social work practice while utilizing the generalist model. PRERQ: SWO 596; COREQ: SWO 502, 511, 555.

598 Practicum III (4) This course involves a structured field experience at an approved social agency for a total of 300 hours for the semester. Students incorporate advanced-level intervention skills with individuals, families, and communities into their professional roles. PREREQ: SWO 597; COREQ: SWO 535, 561, 562, 563.

599 Praticum IV (4) This course involves a structured field experience at an approved social agency for a total of 300 hours during the semester. The student's experience in field practice culminates through coordination within the professional role: integration of theory to practice with individuals, families, and communities; knowledge of the impact of social policy; the role of research in practice; and the influence of diversity and oppression. PREREQ: SWO 598; COREQ: SWO 542, 564.

Sociology — See Anthropology and Sociology Special Education — See Early Childhood and Special Education

Teaching English as a Second Language (TESL)

516 Main Hall West Chester University West Chester, PA 19383 610-436-2916

Dr. Micheau, Coordinator

FACULTY

Diane O. Casagrande, Professor (Communication Studies)

W. Stephen Croddy, Professor (Philosophy)

*Dennis L. Godfrey, Assistant Professor (English)

John T. Kelly, Associate Professor (English)

*Garrett Molholt, Associate Professor (English)
*Cheri L. Micheau, Assistant Professor (English)

Paul A. Stoller, Associate Professor (Anthropology-Sociology)

Programs of Study

The master of arts in Teaching English as a Second Language is an interdisciplinary program contributed to by the departments of English, Foreign Languages, Anthropology and Sociology, Communication Studies, and Philosophy. The program is designed for those preparing to teach English to students whose first language is not English; graduates of this program are also prepared to design

ESL/EFL curriculum and to assess the linguistic development of second language students. Students wishing to enter the program must consult the coordinator. Also offered is the certificate of preparation in ESL teaching, a graduate program that prepares graduates for EFL or ESL teaching in the U.S. and abroad. The five certificate courses may be applied toward the M.A. in TESL. This certificate does not qualify graduates for public school teaching. Both the M.A. and certificate programs provide background in linguistics, sociolinguistics and culture, and teaching methodology in TESL.

Admission Requirements

In addition to meeting the general requirements for admission to a graduate program at West Chester, the candidate must document background in the following areas: (1) Introduction to Linguistics (LIN 501) (subject to approval by a TESL program adviser); (2) 24 semester hours of foreign language/English/linguistics/philoso-phy/communications; (3) 6 semester hours of anthropology/sociology/psychology; (4) experience in learning a second language; (5) proficiency in English. A minimum TOEFL score of 580 is required of all non-native speakers of English for admission to the TESL program. Students with a TOEFL score lower than 580 may be admitted provisionally to the TESL program. Provisionally admitted students

*TESL core faculty

will, in consultation with their adviser, select additional English language courses in order to meet this language proficiency requirement by the time of degree candidacy (after 12-15 credits).

Students who do not meet the foreign language or linguistics background requirements upon application for admission may be admitted provisionally and, in consultation with their adviser, will select additional courses in order to satisfy these requirements by the time of degree candidacy (after 12-15 credits). Students must pass an oral and written comprehensive examination before graduating.

M.A. IN TEACHING ENGLISH AS A SECOND LANGUAGE (TESL)

(36 semester hours)

Required Courses

24 semester hours
ENG 575, 576, 581, 583, 587; ENG 582 or LIN 540; LAN 500, 503
Students submitting equivalent courses for any of the above may substitute, under advisement, courses from the electives below.

Electives 12 semester hours Selected from the electives below. At least one course must be selected from Group 1 and one from Group 2.

Group 1: ENG 577, 579, 582*, 589 (seminar with a linguistic focus); LIN 503, 540, LIN/COM 515 (or other LIN/COM courses

Group 2: ENG 580, 586, 588, 589 (seminar with a methodology focus), 610, 611, 612; LAN 504, 505, 580, 590, 600; L1N 504, 505, 512, and 590

CERTIFICATE OF PREPARATION IN ESL TEACHING (15 semester hours)

Required Courses

12 semester hours

ENG 575, 587; LAN 503; one sociolinguistics/culture course such as ENG 582 or LIN 540

Elective

3 semester hours

A TESL methodology course (selected from ENG 576, 580, 581, 586, 588, 589 [seminar with a methodology focus], 610, 611, 612)

*Either ENG 582 or LIN 540 required; the other course may count as a Group 1 elective.

COURSE DESCRIPTIONS TEACHING ENGLISH AS A SECOND LANGUAGE

Symbols: ENG (English), LIN (Linguistics), LEN (English)

ENG 575 Structure of Modern English (3) Analysis of the details and system of English grammar. Consideration of alternate approaches in analyzing English sentences. Application of analyses to grammar instruction.

ENG 576 Curriculum and Materials for TESL (3) Application of basic second language learning principles to the analysis, development, and implementation of ESt. materials, learner assessment instruments, and curriculum design.

ENG 579 History and Dialects of American English (3) Exploration of the historical, cultural, social, and linguistic conditions and processes contributing to the development of varieties of American English. Linguistic and sociolinguistic analysis of varieties of American English, including regional, social, and gender varieties, as well as register. Consideration of implications of nonstandard language varieties for education.

ENG 581 Teaching Reading and Writing to ESL/Second Language Students (3) ESL/second language reading and writing research and theory; connections to first language-literacy models; techniques, materials, and tasks which facilitate the acquisition of ESL/second language literacy. ENG 582 Sociolinguistic Issues in ESL/Second

Language Education (3) Introduction to social, historical, legal, and cultural issues influencing language use and language learning in language minority communities, schools, and homes. Introduction to issues in bilingual education and language programs for immigrants around the world.

ENG 583 Second Language Acquisition (SLA) (3) Introduction to key issues in SLA research and theory. Analysis of SLA studies and connection to second language teaching. Design of original ministudy of second language.

ENG 586 Field Experiences and Issues in ESL Teaching (3) Provides opportunities for students to observe ESL instruction in a variety of settings, as well as assist ESL instructors in the classroom, including elementary, secondary, university, and adult community programs. Discussion and projects allow students to connect their experiences and observations to current TESL theory and trends introduced in course readings.

ENG 587 ESL Practicum I (1-6) Assists students in developing ESL teaching skills. Encourages reflection on practice and examination of personal beliefs on practice.

ENG 588 ESL Practicum II (1-3) This course is designed for graduate students and ESL professionals who desire additional practical experience in ESL contexts. Special topics covered include some of the following: program design, teacher development and supervision, and materials writing.

ENG 610 Teaching ESL/Second Language to Elementary/Secondary Students (3) Focuses on special language-learning needs of ESL/second language students in elementary, middle, and high school, as well as on trends in teaching second language to these groups, including literature-based, theme-based, and vocationally oriented instruction.

ENG 611 Content-Based ESL/Second Language Instruction (3) Designed for teachers of content areas, as well as for ESL/second language teachers. Examines program models, curriculum design, materials adaptation and evaluation/assessment which combine language and content. Students consider shortcomings of this L2 teaching trend. ENG 612 Assessment of ESL/Second Language

Students (3) Selection, evaluation, adaptation, and creation of assessment instruments for ESL/second language students. Practice in administering tests and interpreting results. Overview of issues in assessing second language students.

LIN501/LEN501 Introduction to Linguistics (3) Analysis and characterization of what humans know when they know a language, including knowledge of the sound, word formation, sentence structure, meaning, and sociolinguistic systems. Development of tools and skills for describing and analyzing language. Application of linguistic principles to such cross-disciplinary studies of language as sociolinguistics, language classification, and language acquisition.

Theatre Arts

BG-18 E.O. Bull Center West Chester University West Chester, PA 19383 610-436-3463

Mr. Berkowitz, Chairperson

PROFESSORS

Robert E. Bytnar, M.F.A., University of Pittsburgh Yoko Hashimoto-Sinclair, Ph.D., University of Michigan Harvey Rovine, Ph.D., University of Illinois

ASSOCIATE PROFESSORS

Jay Berkowitz, M.A., Temple University William Jacobson, M.F.A., Brandeis University

ASSISTANT PROFESSOR

James L. Murphy, M.F.A., Yale University

INSTRUCTOR

Jane Saddoris, M.A., Villanova University

The Department of Theatre Arts does not offer a graduate degree. Graduate level courses are open to those who hold a baccalaureate degree and meet West Chester University standards for admission to graduate studies.

COURSE DESCRIPTIONS THEATRE

Symbol: THA

506 Theatre Theory and Production (3) A survey of theatre history and practice. Students select

specific areas of production and style for presentation, analysis, and research.

516 Theatre and Application of Creative Dramatics (3) The use of creative dramatics as a teaching method in the classroom. Practice and application of theories and techniques.

550 Summer Drama Workshop (1-6) An intensive combination of instruction and applied production experiences. Graduate students will research production theories and submit scholarly papers at the end of the session. Offered in summer only.

Women's Studies

211 Main Hall

West Chester University

West Chester, PA 19383

610-436-2464

Dr. Schlau, coordinator

FACULTY

PROFESSORS

Diane Casagrande, Ph.D. (Communication Studies)

Anne Dzamba, Ph.D. (History)

Elizabeth Larsen, Ph.D. (English)

Mary McCullough, Ph.D. (Communication Studies)

Lynette F. McGrath, Ph.D. (English)

Arlene Rengert, Ph.D. (Geography and Planning)

Stacey Schlau, Ph.D. (Foreign Languages); director,

Women's Studies

ASSOCIATE PROFESSORS

Helen Berger, Ph.D. (Sociology)

Marita Boes, Ph.D. (History)

Celia Esplugas, Ph.D. (Foreign Languages)

Anne Herzog, Ph.D. (English)

Jane Jeffrey, Ph.D. (English)

Deborah Mahlstedt, Ph.D. (Psychology)

Ruth Porritt, Ph.D. (Philosophy)

Geetha Ramanathan, Ph.D. (English)

Frauke Schnell, Ph.D. (Political Science)

Karin Volkwein, Ph.D. (Kinesiology)

ASSISTANT PROFESSORS

Lorraine Bernotsky, D.Phil. (*Political Science*) Jean Piper Burton, M.L.S. (*Library Services*)

Virginia Da Costa, Ph.D. (Art)

Robin Garrett, M.S.N. (Nursing): Director, Women's Center

Karen Gedge, Ph.D. (History)

Maria Van Liew, Ph.D. (Foreign Languages)

Program of Study

The Women's Studies Program consists of an interrelated group of courses offered in both arts and sciences and professional studies. Graduate courses include:

ECO 503 Economic Role of Women

ENG 523 Shakespeare's Sisters: Renaissance Women Writers

ENG 568 20th-Century Women Poets

ENG 580 Women Writing Autobiography

KIN 685 Women's Exercise and Sports

PSC 515 Women in Politics

PSY 565 Psychology of Women

WOS 530 Women in Leadership: Critical Issues

WOS 531 Management of Leadership: Laboratory Course

WOS 533 The Woman Executive: Research Seminar

Graduate students also may pursue a master of science in administration degree with a concentration in **leadership for women**. This concentration involves six courses in administrative skill areas and six additional courses that enable the student to develop a mode of leadership appropriate to workplaces in which access to organizational power is inequitable for women and men of equal training and talent. See the sections "Leadership for Women" and "Master of Science in Administration" for further information.

COURSE DESCRIPTIONS WOMEN'S STUDIES

Symbol: WOS

530 Women in Leadership: Critical Issues (3) Survey of the literature that defines and discusses critical issues for the woman leader. Some issues center around lifestyle choices and conflicts (loneliness, family pressure) and others around organizational barriers and alternative means to

overcome them.

531 Management of Leadership: Laboratory Course (3) The study and practice of alternative leadership modes. The course uses workshop techniques to teach speech, small-group dynamics, and other communication skills, and problem-solving strategies.

533 Woman Executive: Research

Seminar (3) A seminar that requires each student

to complete an original project on the goals, problems, choices, or successes of women in middleor upper-level management positions. The use of case studies, surveys, oral history, and other research techniques will be explored. An appropriate internship may be substituted for this course. 539 Independent Study (3) A project to be developed independently by the student working with a specific instructor.

Guide to Course Prefixes

Counseling and Educational

Professional and Secondary

Psychology

Education

Literacy

EDP

EDR

EDS

Professional and Secondary Mathematics EDU Because many program descriptions refer to Mathematics courses offered by other departments, the Education Professional and Secondary Music Education following guide to course prefixes is provid-EDX MUE Music Theory and Composition ed for both graduate and undergraduate Education ELB Instrumental Music MWP Keyboard Music classes. ELO Instrumental Music MWS Keyboard Music ACC Accounting ENG NSG Nursing ADM Administration, Leadership for ESL Geology and Astronomy NSL Nursing ESS Geology and Astronomy Keyboard Music ORG Aerospace Studies AER FIN Economics Government and Planning PAD ANT Anthropology and Sociology English FLM PEA Physical Education ARH FRE Foreign Languages PEC Instrumental Music ART GEO Geography and Planning PEN Instrumental Music ASA American Studies GER Foreign Languages PHE Geology and Astronomy History, American Studies ASH Foreign Languages GRE Philosophy PHI Instrumental Music BEN Keyboard Music HAR PHL Physics BIL Biology Health HEA PHR Physics BIO Biology HEB Foreign Languages PHS Physics BLA **Business Administration** History HIS PHY Physics and Pre-Engineering BRC Instrumental Music HON Honors Program PIA Keyboard Music **Economics** BUS HTR Health POR Foreign Languages Instrumental Music CBA HUM Women's Studies **PSC** Government and Planning Chemistry CHE ICO Instrumental Music PSY Psychology CHO Vocal/Choral Music IND Geology and Astronomy PWP English Comparative Literature Studies, CLS Instrumental Music INS Professional and Secondary RES ITA Foreign Languages Education COM Communication Studies Instrumental Music **JEN** RUS Foreign Languages COR Instrumental Music JRN English SBA Instrumental Music CRJ Criminal Justice Keyboard Music KEM SCB Biology CRL Chemistry KIL Kinesiology SCC Chemistry CSC Computer Science KIN Kinesiology SCE Geology and Astronomy DRC Instrumental Music Foreign Languages LAN SEN Instrumental Music Early Childhood and Special LAT Foreign Languages Anthropology and Sociology SOC Education LEN English SPA Foreign Languages ECO Economics LIN Foreign Languages Communicative Disorders SPP Early Childhood and Special LIT English Social Studies, Ethnic Studies, SSC Education LPN Philosophy Peace and Conflict Studies Counseling and Educational EDC MAB Instrumental Music STA Mathematics Psychology MAC Keyboard Music Instrumental Music STC Elementary Education EDE MAK Keyboard Music SWO Social Work Professional and Secondary EDF MAP Instrumental Music Instrumental Music SYO Education MAS Instrumental Music Theatre Arts THA EDG Elementary Education Mathematics MAT VOC Vocal/Choral Music MAW Instrumental Music Professional and Secondary EDO Vocal/Choral Music VOl Education MGT Business Administration Instrumental Music WEN Music History

Management Information Systems

Music Theory and Composition

Business Administration

Military Science

Instrumental Music

Women's Studies

WWC Instrumental Music

WIN

WOS

MHL

MIS

MKT

MSI

MTC

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Associate Dean, College of Arts and Sciences .	
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Dean, School of Education	
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Disease Course Day of survey Court	
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Director, Children's Center	
Director, Counseling and Psychological Services Department	
Director Greek Life and Student Organizations	
Director, Oreck Ene and Student Organizations	
Director, Health Center	
Assistant Dean of Students, Judicial Affairs and Community Deve	elopment
Director, Multicultural Affairs	
Director New Student Programs	Ma Israel Conf.
Disaster Student Davids and LIV II	
Director, Student Development and Wellness Programs	
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Student Services incorporated, Director, Student Programming	
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Faculty

Spring 1998

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A. WAYNE BURTON (1965) Associate Professor of Political Science

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BARBARA BROWN WANTA (1983) Assistant Professor of Nursing

B.S.N., University of Pennsylvania; M.S., Oxford University (U.K.); M.S.N., University of Pennsylvania

JOHN W. WARD (1961) Associate Professor of English

A.B., M.A., Miami University; Ph.D., University of Delaware

JOHN W. WEAVER (1973) Chairperson. Department of Computer Science. Professor B.A., Eastern Mennonite University; M.A., University of Delaware; Ph.D., The Johns Hopkins University

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MICHAEL S. WEISS (1978) Professor of Communicative Disorders B.A., Long Island University; M.S., Ph.D., Purdue University

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URSULE YA f1.S (1986) Instructor of English B.A., Rutgers — The State University; M.A., Ph.D., Bryn Mawr College

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B. A. National Taiwan University: M.S.L.S.

B.A., National Taiwan University; M.S.L.S., Drexel University

RICHARD B. YODER (1962) Professor of Kinesiology

B.S. Wast Chaster University: M.A. Villand

B.S., West Chester University; M.A., Villanova University

STEFANI YORGES (1996) Assistant Professor of Psychology B.A., Hastings College; M.S., Ph.D., Purdue University

ROBERT J. YOUNG (1965) *Professor of History* B.S., University of Pennsylvania

EDEN ZABAT (1997) Instructor of Nursing B.S.N., Pennsylvania State University; M.S.N., Villanova University

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GAIL M. FELLOWS Department of Health B.S., University of Arizona; M.S., West Chester University

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RICHARD RUPKALVIS Department of Biology B.S., Illinois Benedictine College; M.D., Rush Medical College

SHARON STRAUSS Department of Biology B.S., Kutztown State College

EDWARD THERKAUF Department of Health B.S., Princeton University; M.D., Columbia College of Physicians and Surgeons

MICHAEL J. WARHOL Department of Biology A.B., Princeton University; M.D., University of Pittsburgh

SUSAN WIX Department of Health B.S., West Chester University; M.S., Eastern College

RICHARD W. ZIEGLER Department of Sports
Medicine

R. A. Princeton University: M.D. Lefferson

B.A., Princeton University; M.D., Jefferson Medical College, Thomas Jefferson University

Emeriti

†ALEXANDER ANTONOWICH, Music Education

*ELEANOR ASHKENAZ, Chemistry
*DOROTHY D. BAILEY, English

†HAROLD W. BENDA, Dean of Education Emeritus

BERNICE BERNATZ, Dean of Women Emerita

ROBERT BERNHARDT, Biology

F. ROBERT BIELSKI, Geography and Planning

WALTER R.. BLAIR, Educational Services

*JAMES A. BINNEY, English

MARY M. BLISS, Biology

JUSTO B. BRAVO, Chemistry

WALTER E. BUECHELE, JR., Counselor, Secondary, and Professional Education

ROBERT E. CARLSON, History

†PAUL E. CARSON, Music

NONA E. CHERN, Childhood Studies and Reading

K. ELEANOR CHRISTENSEN, Childhood Studies and Reading

CARMELA L. CINQUINA, Biology

MARY E. CLEARY, Education

[†]JOHN W. CLOKEY, Dean of Arts and Letters Emeritus

BARBARA J. COATES, Physical Education

BERNARD B. COHEN, Psychology

*FAYE A. COLLICOTT, Librarian

GERALDINE C. CONBEER, Librarian

STELLA CONAWAY, Vocal and Choral Music

EDWIN B. COTTRELL, Health and Physical Education

*GEORGE R. CRESSMAN, Education

GEORGANN CULLEN, Biology

†KATHERINE M. DENWORTH, Education

RAYMOND A. DOYLE, History

MARC L. DURAND, Chemistry

*MARK M. EVANS, Director of Student Teaching

†MARION FARNHAM, Art

RUTH FELDMAN, Psychology

ALBERT E. FILANO, Vice President for Academic Affairs Emeritus and Mathematical Sciences

BYRON Y. FLECK, Dean of Social Sciences Emeritus

†THOMAS J. FRANCELLA, Criminal Justice

HOWARD FREEMAN, Counseling

JOHN FURLOW, Physical Education

CHARLES GANGEMI, Keyboard Music

CHARLOTTE M. GOOD, Education

†ROBERT B. GORDON, Sciences

*ANNE M. GOSHEN, Psychology *MIRIAM S. GOTTLIEB, Music

SEYMOUR S. GREENBERG, Geology

†THELMA J. GREENWOOD, Biology

MADELYN GUTWIRTH, Foreign Longuages

SAUNDRA M. HALL, Theatre Arts

by The Control of the

 † H. THEODORE HALLMAN, Art

JOAN HASSELQUIST, Childhood Studies and Reading

JACK GARDNER HAWTHORNE, Art

†CHARLES W. HEATHCOTE, Social Sciences

†THOMAS J. HEIM, Social Sciences

WALTER J. HIPPLE, Philosophy

†PHILIP P. HOGGARD, Education

PATRICIA CARLEY JOHNSON, History

PAMELA JUDSON-RHODES (HEMPHILL), Art

CAROLYN B. KEEFE, Communication Studies

*W. GLENN KILLINGER, Dean of Men Emeritus

CHARLOTTE E. KING, Childhood Studies and Reading

MARY L. KLINE, Nursing

*CARRIE C. KULP, Education

*GEORGE LANGDON, Geography and Planning

[†]MURIEL LEACH, Health and Physical Education MELVIN M. LORBACK, Physical Education

†GRACE D. MCCARTHY, English

*EMIL H. MESSIKOMER, Dean Emeritus

*LLOYD C. MITCHELL, Dean of Music Emeritus

WILLIAM M. MOREHOUSE, Theatre Arts

SHIRLEY A. MUNGER, Music

†DOROTHY R. NOWACK, Health

BERNARD S. OLDSEY, English

WILLIAM R. OVERLEASE, Biology

JACK A. OWENS, Health and Physical Education

RUTH PETKOFSKY, Childhood Studies and Reading

*DOROTHY RAMSEY, English

GEORGE F. REED, Geology and Astronomy

N. RUTH REED, Health

RUSSELL K. RICKERT, Physics and Dean of Sciences and Mathematics

WALTER NATHANIEL RIDLEY, Education

ALFRED D. ROBERTS, Foreign Languages

*B. PAUL ROSS, Education

PHILIP B. RUDNICK, Chemistry

†HELEN RUSSELL, Library Science

GLENN W. SAMUELSON, Anthropology and Sociology

HAROLD R. SANDS, Psychology

HARRY SCHALK, History

†GERTRUDE K. SCHMIDT, Music

JANE E. SHEPPARD, Vocal and Choral Music

CAROLYN G. SIMMENDINGER, Art

W. CLYDE SKILLEN, Biology

†KENNETH C. SLAGLE, Dean of Arts and Sciences Emeritus

PHILIP D. SMITH, JR., Foreign Languages †CHARLES A. SPRENKLE, Dean of Music

RUTH S. STANLEY, Mothematical Sciences

R. GODFREY STUDENMUND, Education
RUSSELL L. STURZEBECKER, Dean of Health

and Physical Education Emeritus JANE B. SWAN, History

Dcceased

ROY D. SWEET, Vocal and Choral Music
*EARL F. SYKES, President Emeritus
ELINOR Z. TAYLOR, Physicol Education and
Dean of Administration

*JOSEPH M. THORSON, Business Administration

*WILLARD J. TREZISE, Biology

*EDWARD T. TWARDOWSKI, Health and Physical Education

*S. ELIZABETH 1YSON, English JOY VANDEVER, Music Education *EARLE C. WATERS, Health and Physical Education

SOL WEISS, Mathematical Sciences
THEODORA L. WEST, English
BENJAMIN WHITTEN, Keyboard Music
ARDIS M. WILLIAMS, Chemistry
LOIS M. WILLIAMS, Music
HARRY WILKINSON, Music
LLOYD C. WILKINSON, Physical Education
*JOSEPHINE E. WILSON, English

JAMES J. WRIGHT, Music Theory and Composition

EDWIN L. YOUMANS, Dean of Health and Physical Education Emeritus

CARLOS R. ZIEGLER, Childhood Studies and Reading

*EDWARD ZIMMER, Music

CORNELIA ZIMMERMAN, Childhood Studies and Reading

Honorary Degrees

1984

ANDREW WYETH, Doctor of Humane Letters

1993

EMILIE KESSEL ASPLUNDH, Doctor of Public Service

CONSTANCE E. CLAYTON, Doctor of Public

1994

DAVID P. ROSELLE, Doctor of Law CHARLES E. SWOPE, Doctor of Public Service

1995

WILLIAM A. BOUCHER, Doctor of Public Service 1996

CURT WELDON, Doctor of Public Service ELINOR Z. TAYLOR, Doctor of Public Service

1997

JACOB LAWRENCE, Doctor of Fine Arts

1998

CHAIM POTOK, Doctor of Humane Letters

President's Medallion for Service

1986

EMILIE KESSEL ASPLUNDH JANICE WEIR ETSHIED W. GLENN KILLINGER

1987 THOMAS B. CHAMBERS T. FRANK GANNON WILLIAM E. HUGHES MICHAEL J. JONES

MICHAEL J. JONE SARA L. SCHMID KURT STRAUSS 1989

ATSUSHI MINOHHARA MASAYOSHI TANAKA

1990

CLIFFORD E. DeBAPTISTE

1991

MORGAN DOWD ADELYENE KELLY ALVY KELLY

1003

STANLEY J. YAROSEWICK

1993

ALBERT E. FILANO

1994 JAMES L. LARSON

F. JOSEPH LOEPER

1995

CARLOS R. ZIEGLER

1997

RAY M. MINCARELLI, JR. ROSANNE D. MINCARELLI

1998

HENRY A. JORDAN, M.D. BARBARA M, JORDAN

Trustees Achievement Awards

1985

FRANK GROSSHANS CHARLES C. SOUFAS, JR.

1986

RICHARD W. FIELDS

1987

MARSHALL J. BECKER WACLAW SZYMANSKI 1989

CHRISTOPHER BUCKLEY LARRY A. NELSON

1990

PAUL STOLLER

1992

MARY E. CRAWFORD

1995

RICHARD E. BLAKE FRANK E. FISH

1996

JEROME M. WILLIAMS

1997

STERLING E. MURRAY

1998

KOSTAS MYRSIADES

Distinguished Teaching Chairs

1982–1983 FRANK A. SMITH JANE B. SWAN

Merit Awards

1982–1983 DIANE O. CASAGRANDE MARY A. KEETZ JANE E. SHEPPARD CHARLES H. STUART

1983–1984 ELIZABETH A. GIANGIULIO KOSTAS MYRSIADES LOIS WILLIAMS 1984-1985

FRANK E. MILLIMAN RUTH I. WEIDNER

1986-1987

G. WINFIELD FAIRCHILD KOSTAS MYRSIADES

1987-1988

WALLACE J. KAHN STERLING E. MURRAY ARLENE C. RENGERT 1988-1989

PAMELA HEMPHILL

1989-1990

MADELYN GUTWIRTH JOAN HASSELQUIST

1990-1991

BENJAMIN WHITTEN

1991-199

CHRISTOPHER BUCKLEY

1992-1993

WILLIAM TOROP

1993-1994

LOUIS CASCIATO

1995-1996

T. OBINKARAM ECHEWA

PHILIP RUDNICK

1996-1997 RICHARD E. BLAKE

REBECCA PAULY ELISE A. TRIANO

1997-1998

H. JAMES BURGWYN JASMIN T. MCCONATHA

Lindback Distinguished Teaching Award

ERMINIO BRAIDOTTI

Irving Hersch Cohen Faculty Merit Award

DOROTHY NOWACK

GEORGE CLAGHORN

1993

JUDITH FINKEL

RICHARD VELETA

1995

DEBORAH MAHLSTEDT

1997

IRENE G. SHUR

Distinguished Faculty Awards

1974-1975

THOMAS A. EGAN, Teaching E. RILEY HOLMAN, Teaching MICHAEL A. PEICH, Teaching

1975-1976

WALTER E. BUECHELE, JR., Service CARMELA L. CINQUINA, Service PHILLIP B. DONLEY, Service GEORGE W. MAXIM, Teaching EDWARD N. NORRIS, Service PHILIP D. SMITH, JR., Teaching WILLIAM TOROP, Teaching

1976-1977

ROBERT E. BYTNAR, Service ANDREW E. DINNIMAN, Service IRENE G. SHUR, Teaching

RUSSELL L. STURZEBECKER, Service

1977-1978

MARC L. DURAND and ROBERT F. FOERY

(Joint Project), Service

BERNARD S. OLDSEY, Service GEORGE F. REED, Teaching RICHARD I. WOODRUFF, Teaching

1978-1979

ROBERT E. CARLSON, Service JOHN J. TURNER, JR., Teaching C. RALPH VERNO, Teaching

DIANE O. CASAGRANDE

ROBERT H. WEISS, Service

1979-1980

CAROLYN B. KEEFE, Teaching JOHN A. MANGRAVITE, Teaching PHILIP D. SMITH, JR., Service NORBERT C. SOLDON, Service

1980-1981

LOUIS A. CASCIATO, Teaching PHILIP B. RUDNICK, Service FRANK A. SMITH, JR., Teaching JANE B. SWAN, Teaching JOSEPH M. THORSON, Service

ACADEMIC CALENDAR 1999-2000

FALL SEMESTER 1999

August 28 and 29 Residence halls open Classes begin - 8 a.m. August 30 Late Registration and Drop/Add Labor Day - no classes September 6 September 11 Rosh Hashanah* September 20 Yom Kippur* October 5 University Festival (no regular classes) November 24 Thanksgiving recess begins – 8 a.m. November 29 Thanksgiving recess ends – 8 a.m. December 10 Last day of classes December 11-12 Reading days December 13-18 Examination period December 19 Commencement December 19

SUMMER SESSIONS 1999

Fall semester ends

May 24 – June 28 July 6 – August 9 August 16 – 27

First Five-Week Session Second Five-Week Session Third Three-Week Session

SPRING SEMESTER 2000

Classes begin – 8 a.m. January 17 Late Registration and Drop/Add Martin Luther King, Jr. Day – classes January 17 are in session Spring break begins - 5 p.m. March 3 Spring break ends - 8 a.m. March 13 April 20 Passover* Good Friday April 21 Last day of classes April 28 April 29-30 Reading days May 1-6 Examination period May 7 Commencement May 7 Spring semester ends

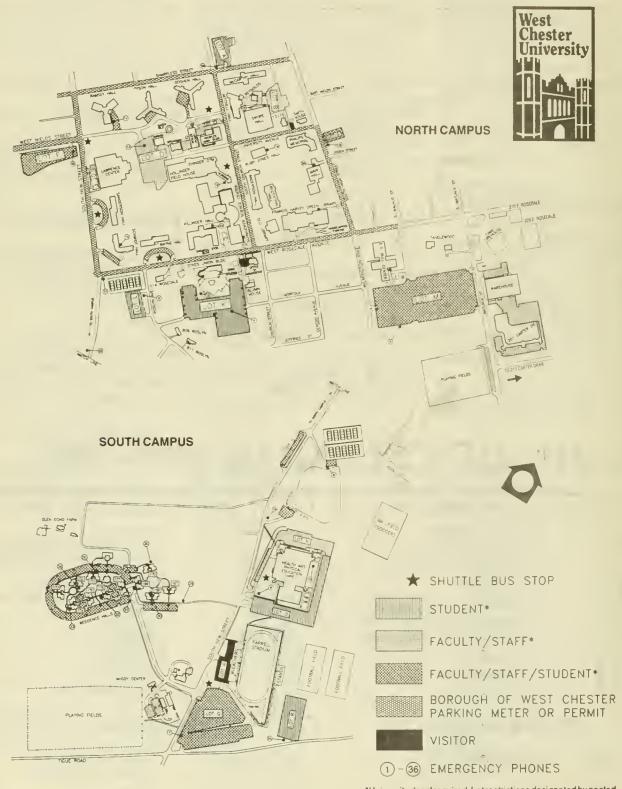
SUMMER SESSIONS 2000

May 24 – June 28 July 6 – August 9 August 16-27

First Five-Week Session Second Five-Week Session Third Three-Week Session

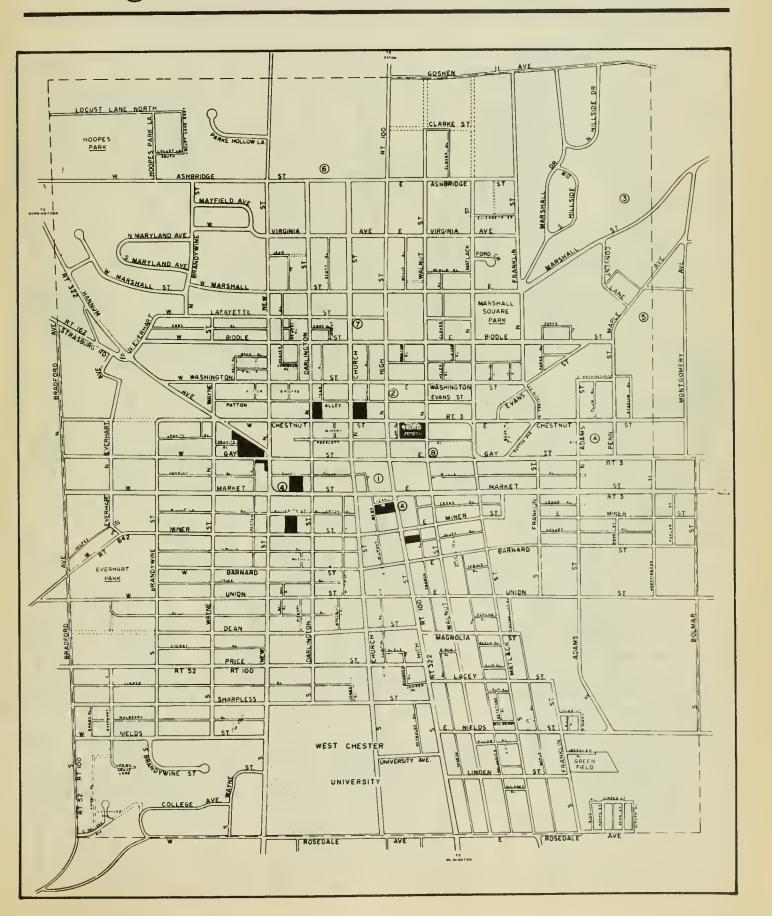
^{&#}x27;Although the University will be in session, no examinations are to be administered on these major Christian and Jewish holy days. All members of the academic community are also expected to be considerate of and provide appropriate accommodations to students of other faiths when assignments, exams, and other course requirements fall on the major holy days of their religions.

Campus Map

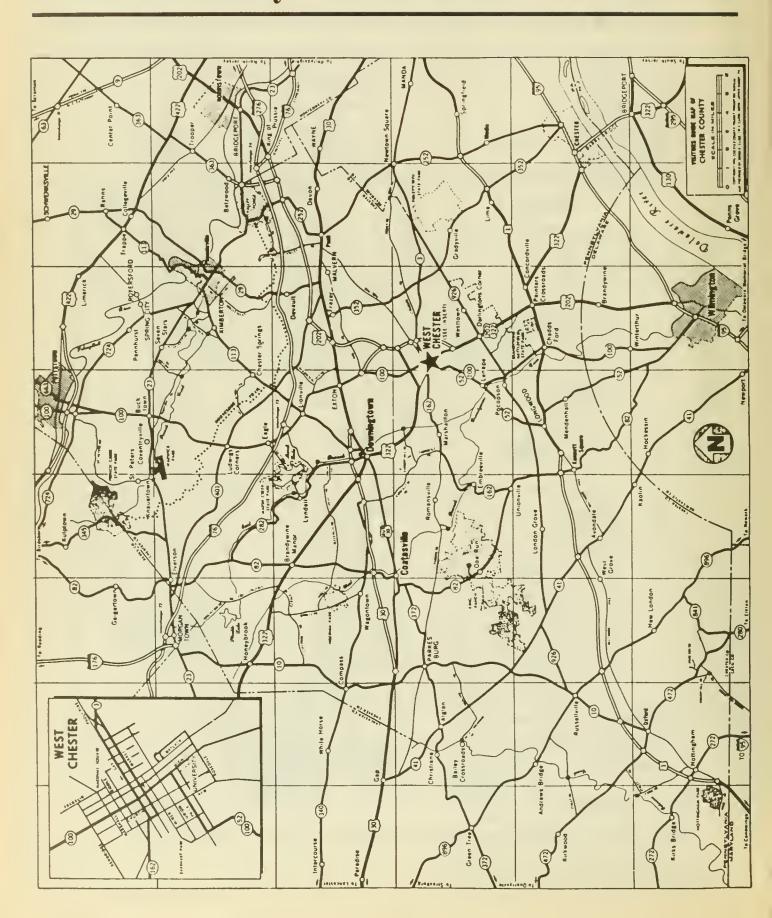


*University decal required. Lot restrictions designated by posted signs, which takes precedent over published materials. Parking decals and enforcement subject to change as posted. A separate map designating parking for the handicapped is available at Public Safety in the Peoples Maintenance Building. Map prepared by Facilities Planning and Construction Division.

Borough of West Chester



Chester County



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